



NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

Know the Earth... Show the Way... Understand the World

Me on the Map





NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

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NGA in St. Louis





Fun Fact !

Where does the world's largest collection of maps reside?



The Library of
Congress in
Washington, D.C.
5.4 Million!

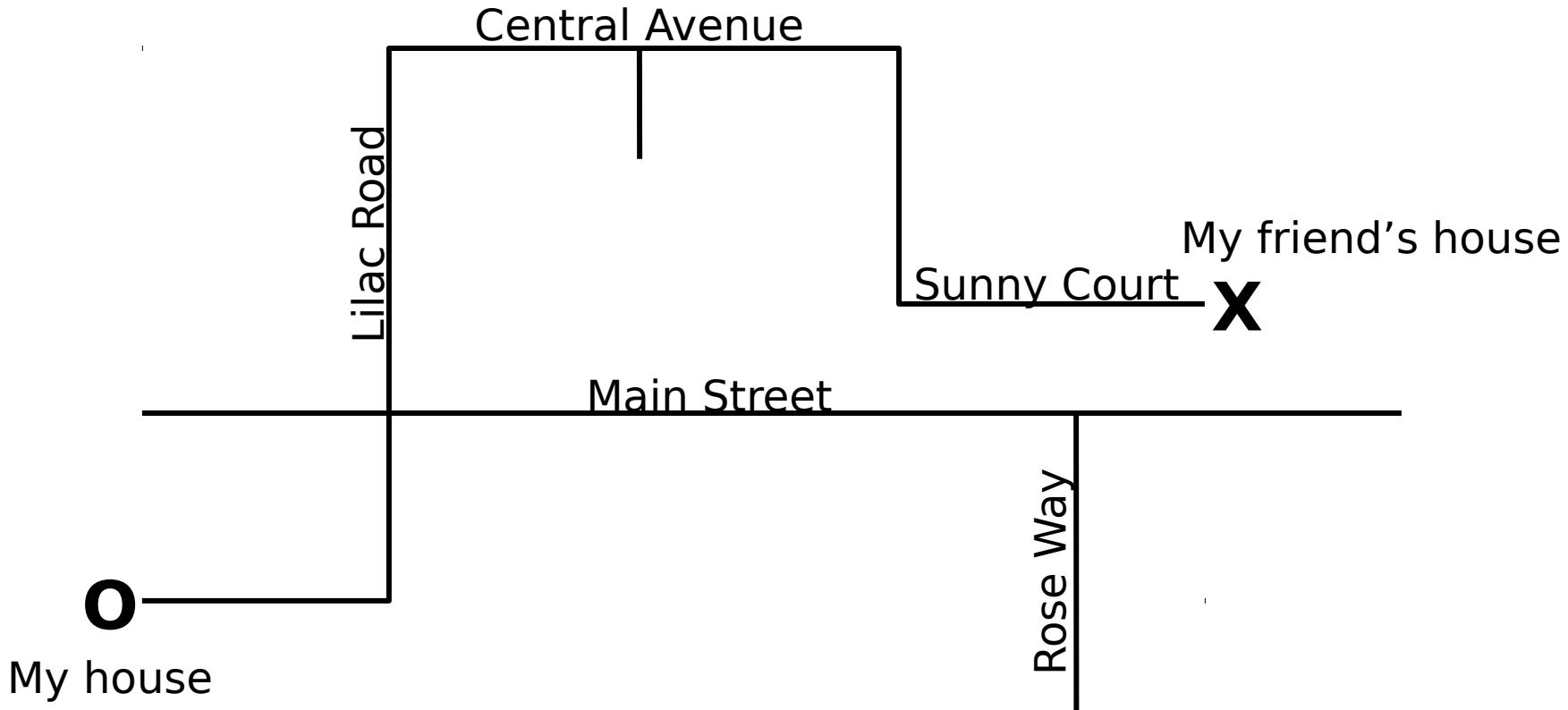


A faint, semi-transparent grayscale world map serves as the background for the entire slide, centered behind the main text.

Have you ever drawn a map?



A simple line map



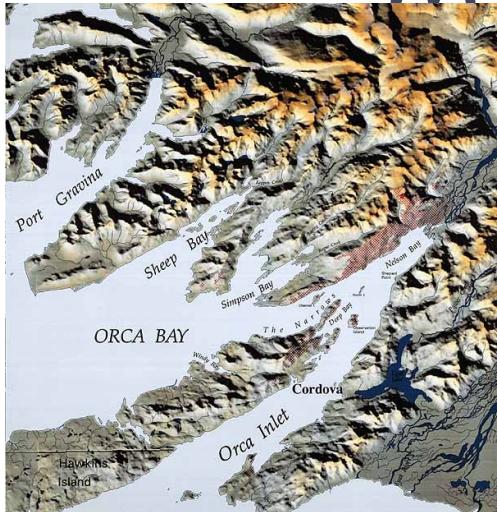


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Some types of maps NGA makes

Shaded relief

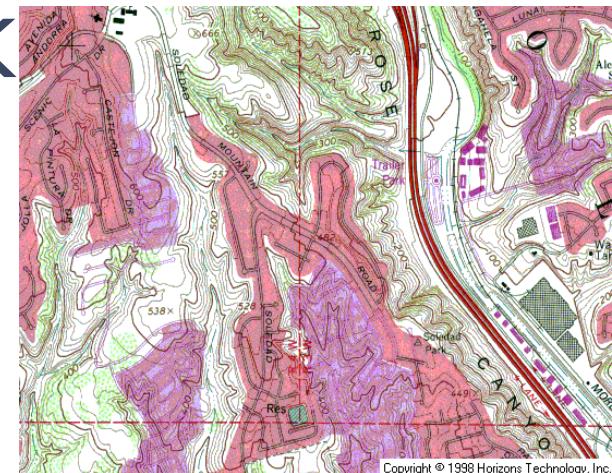


World map

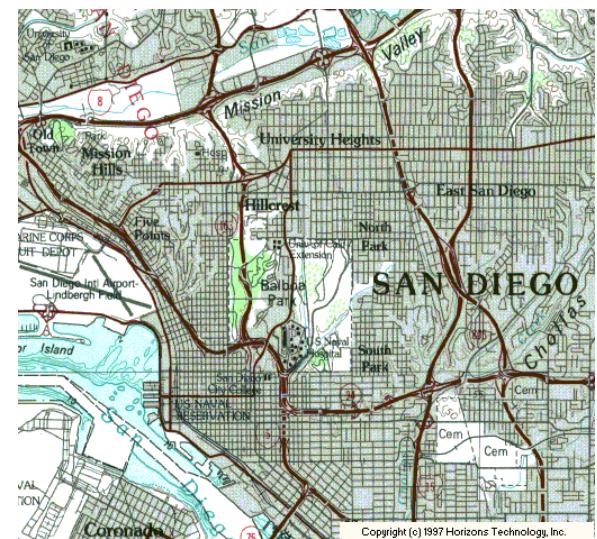


Approved for public release, 14-044

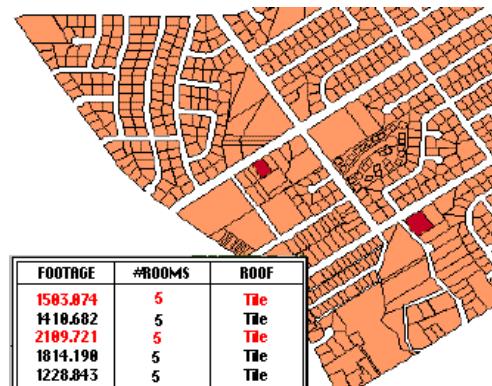
Topographic



City map

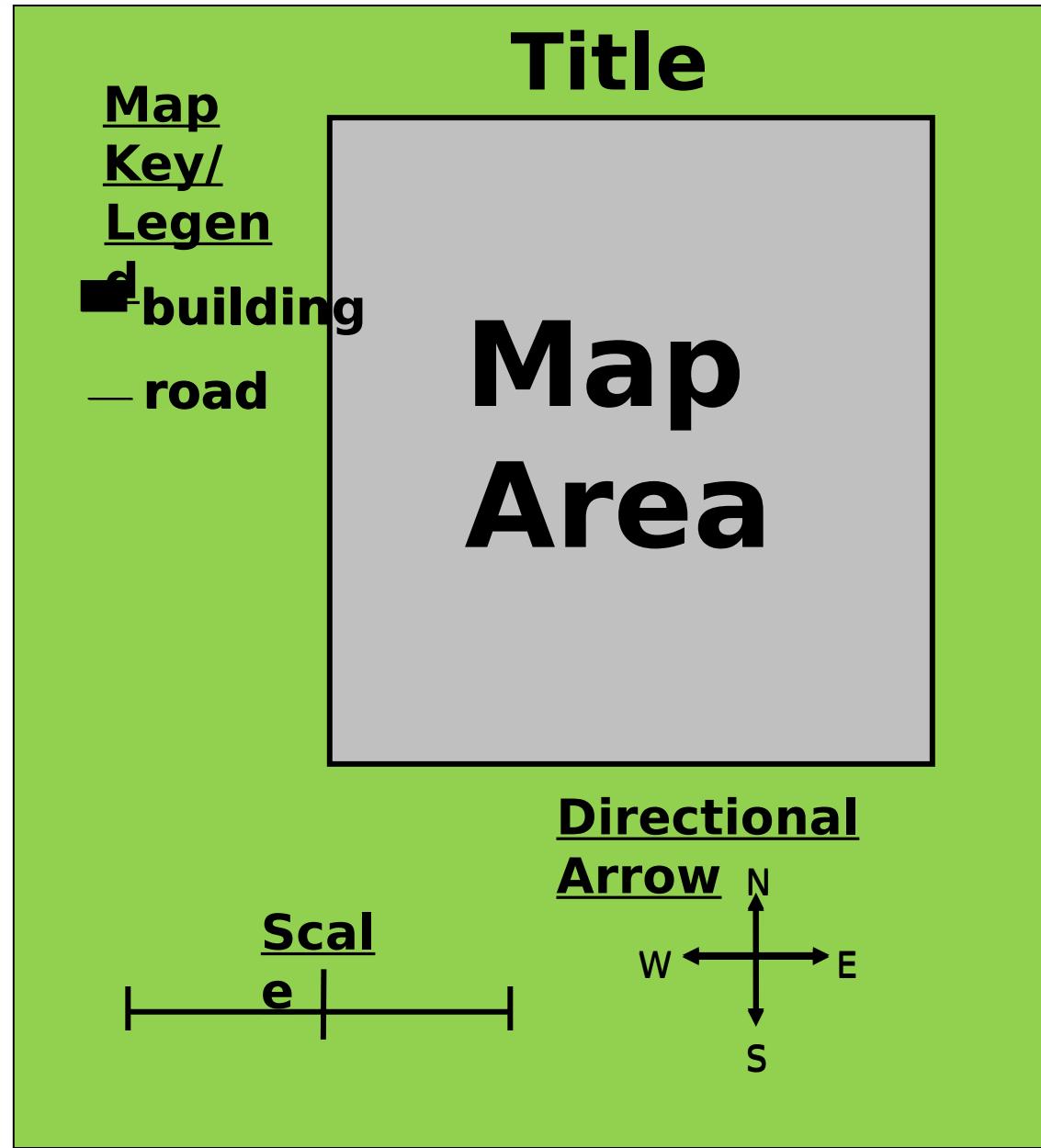


City streets





Parts of a Map



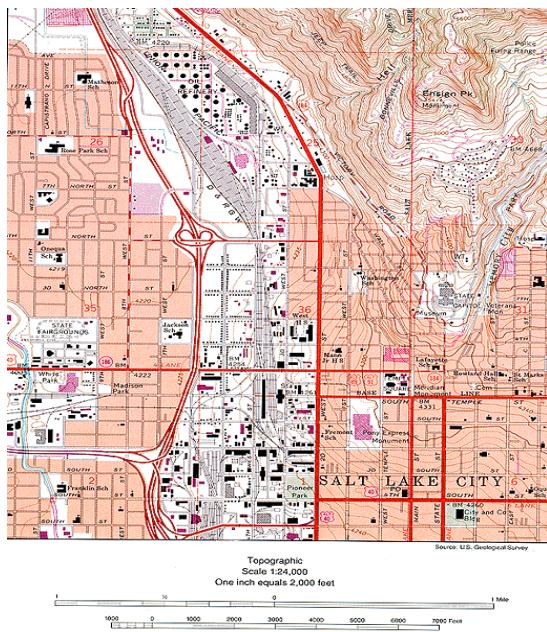


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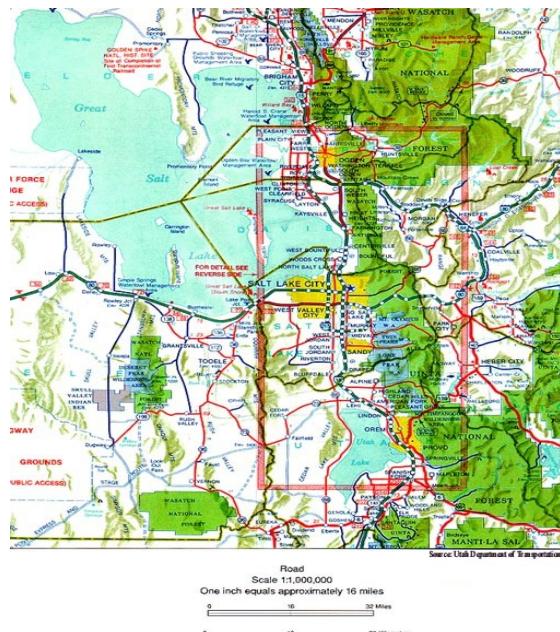
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Map Symbols

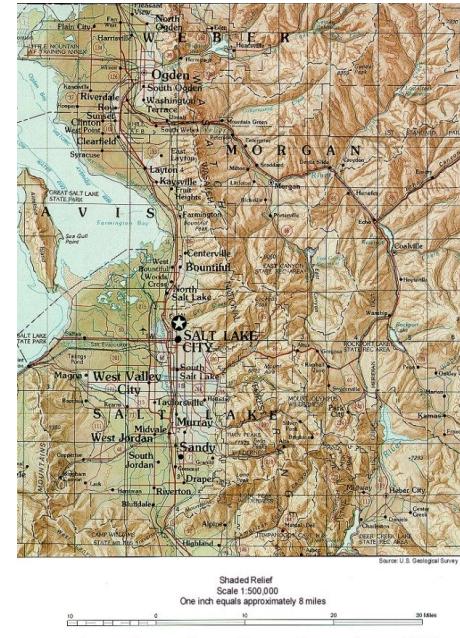
Topographic Map



Road Map



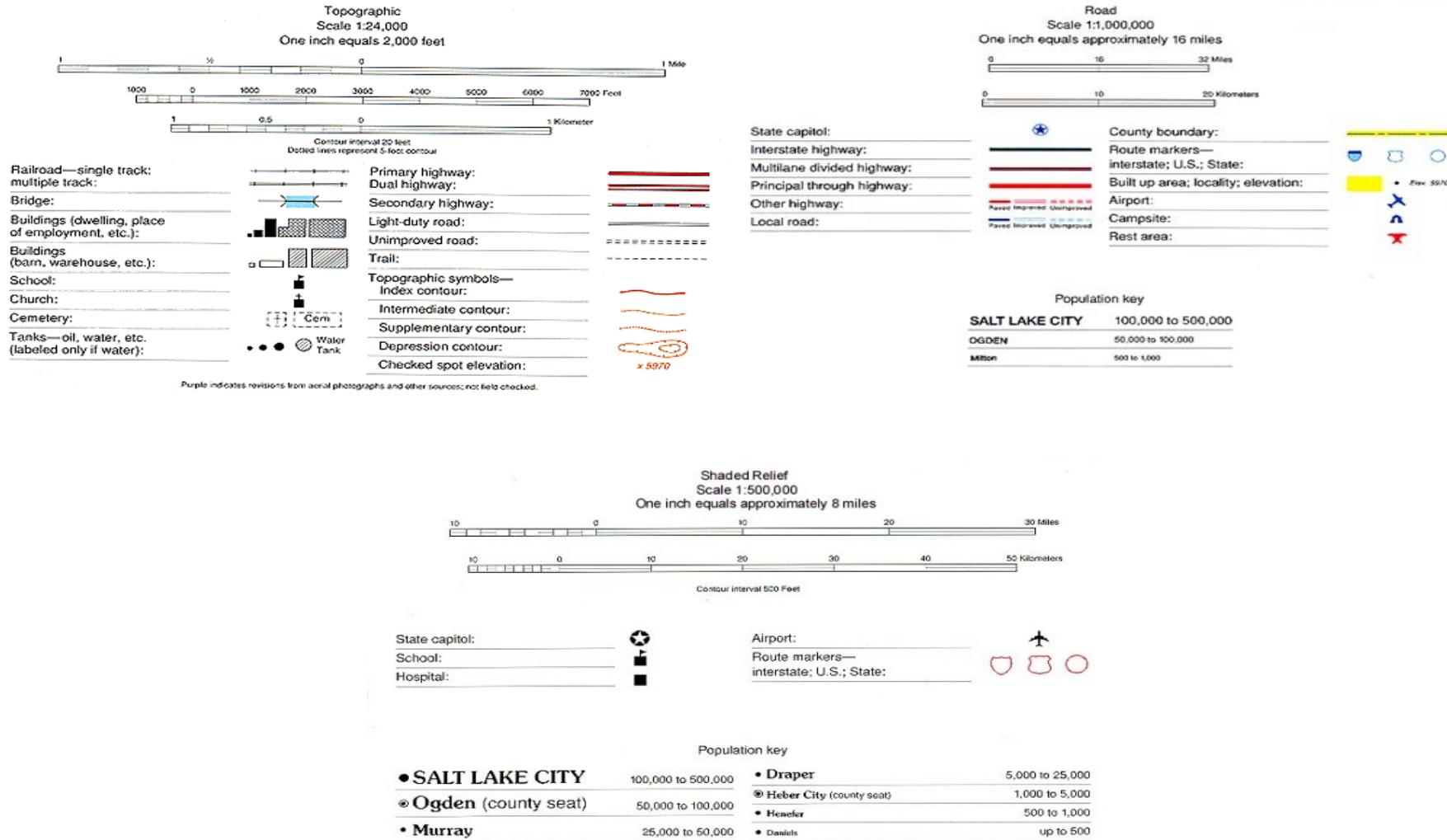
Shaded Relief Map





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Let's
talk
about
scale!





United States of America

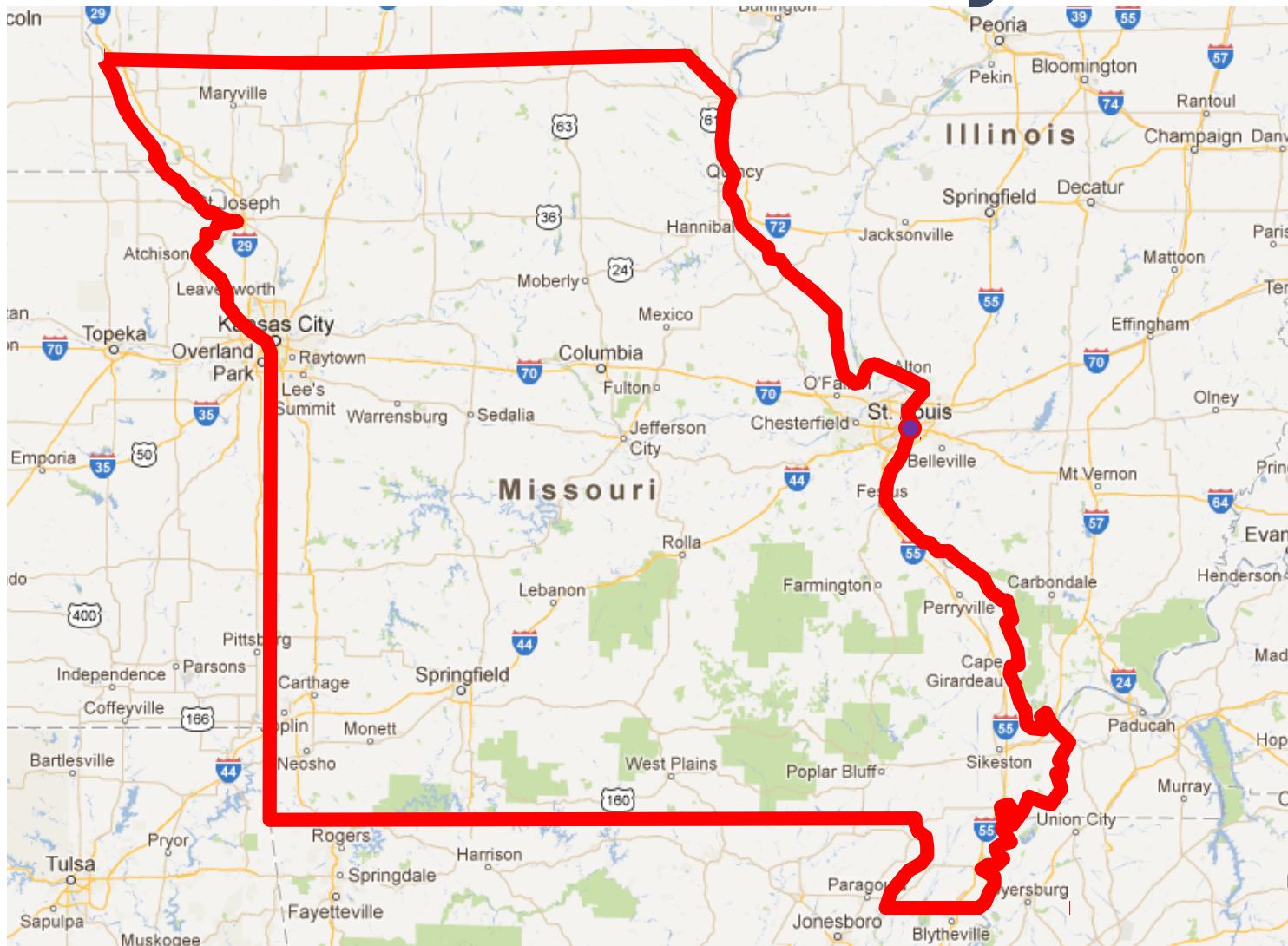




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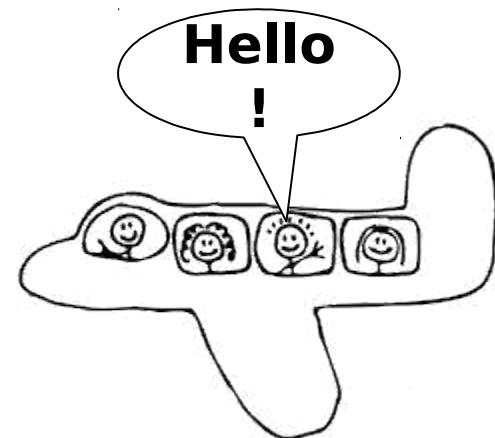
State and City





How Maps Are Made

Photography from
planes or satellite



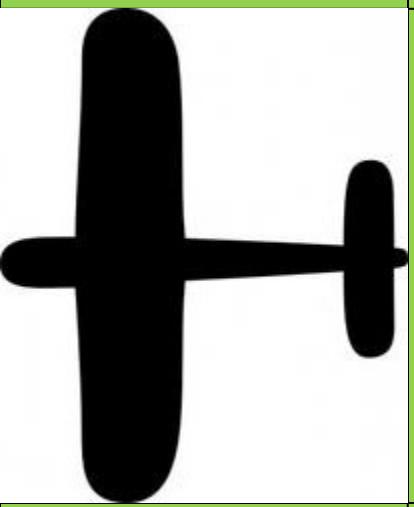




Image courtesy of google.com



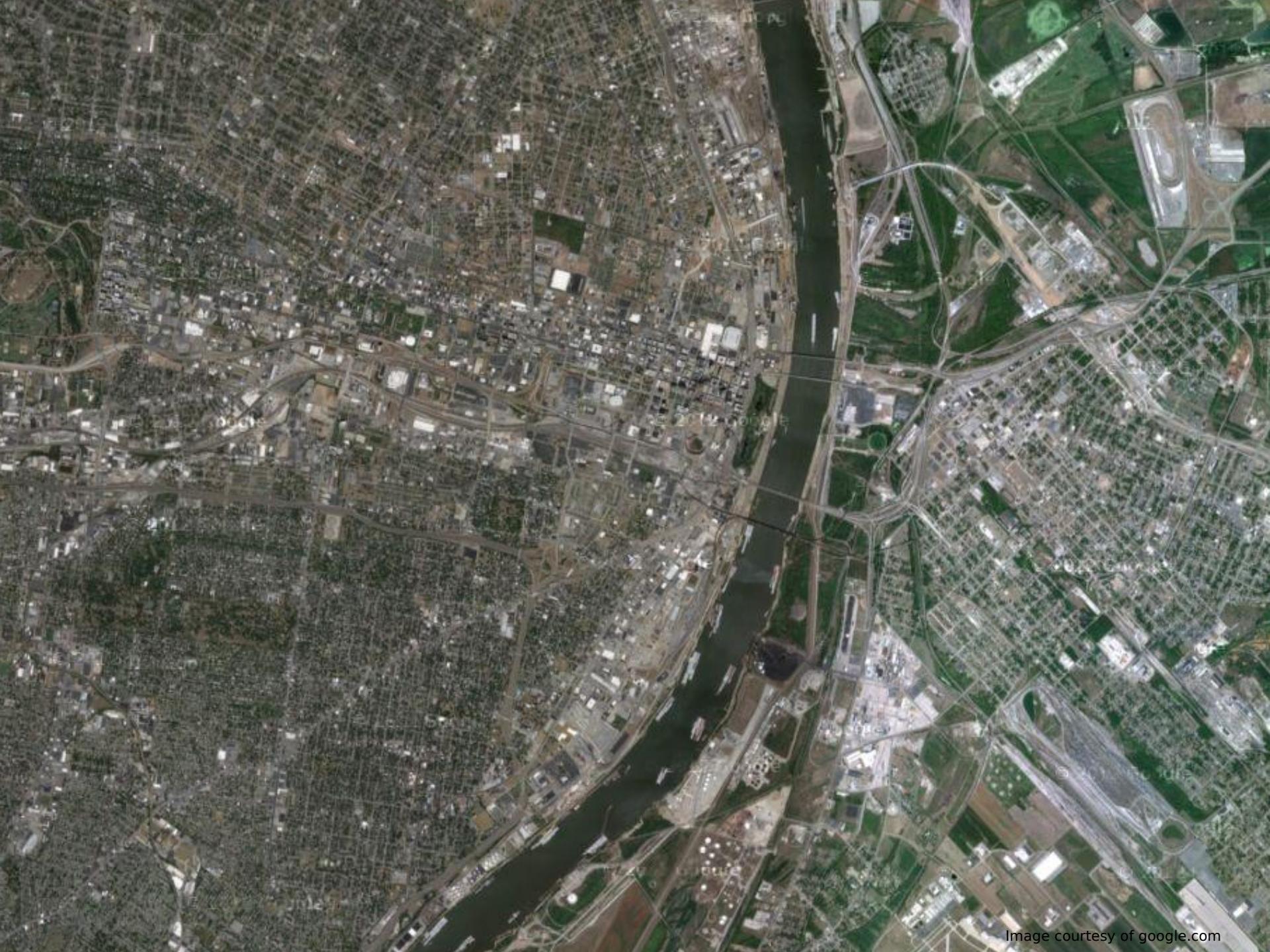


Image courtesy of google.com

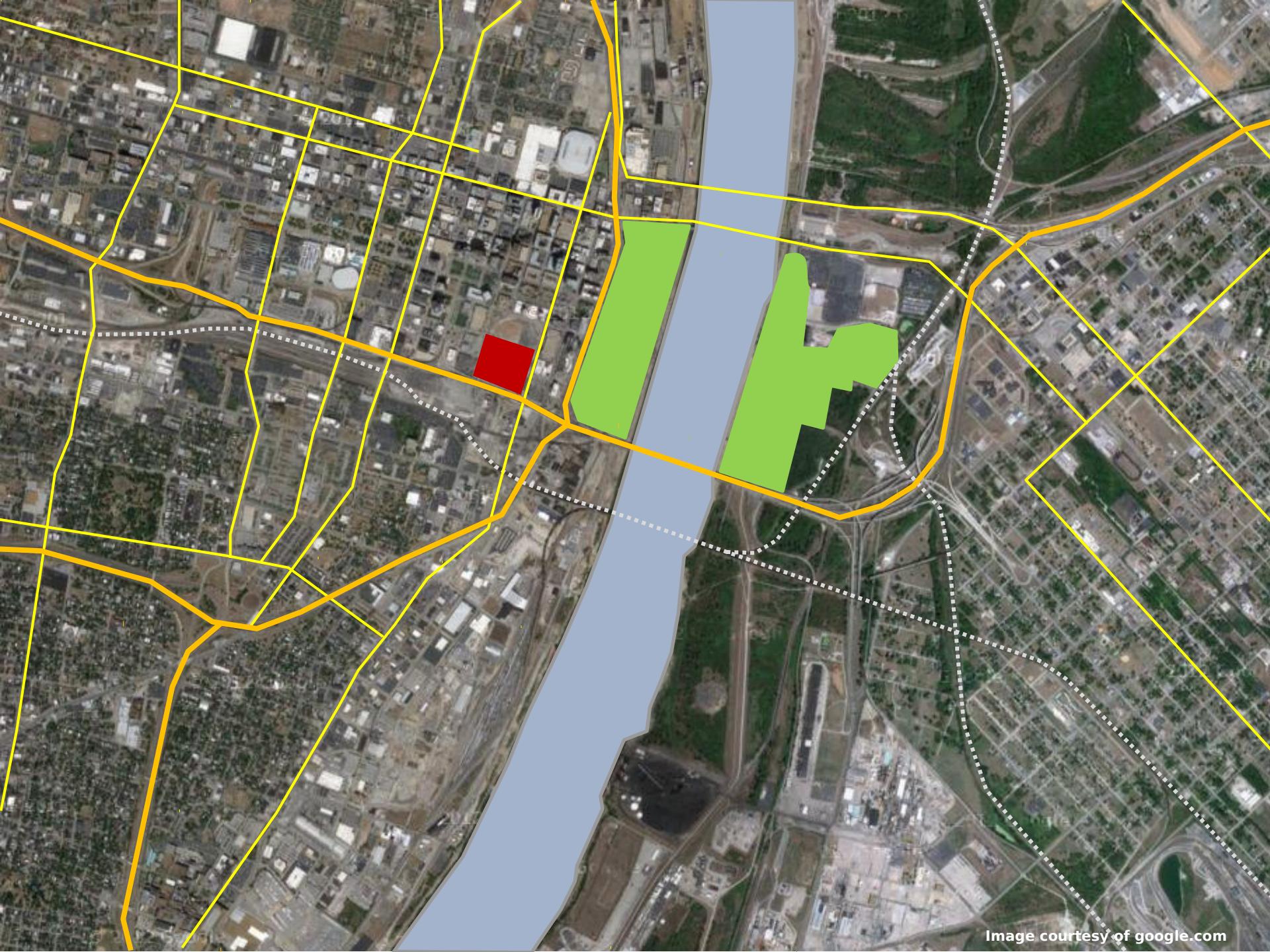
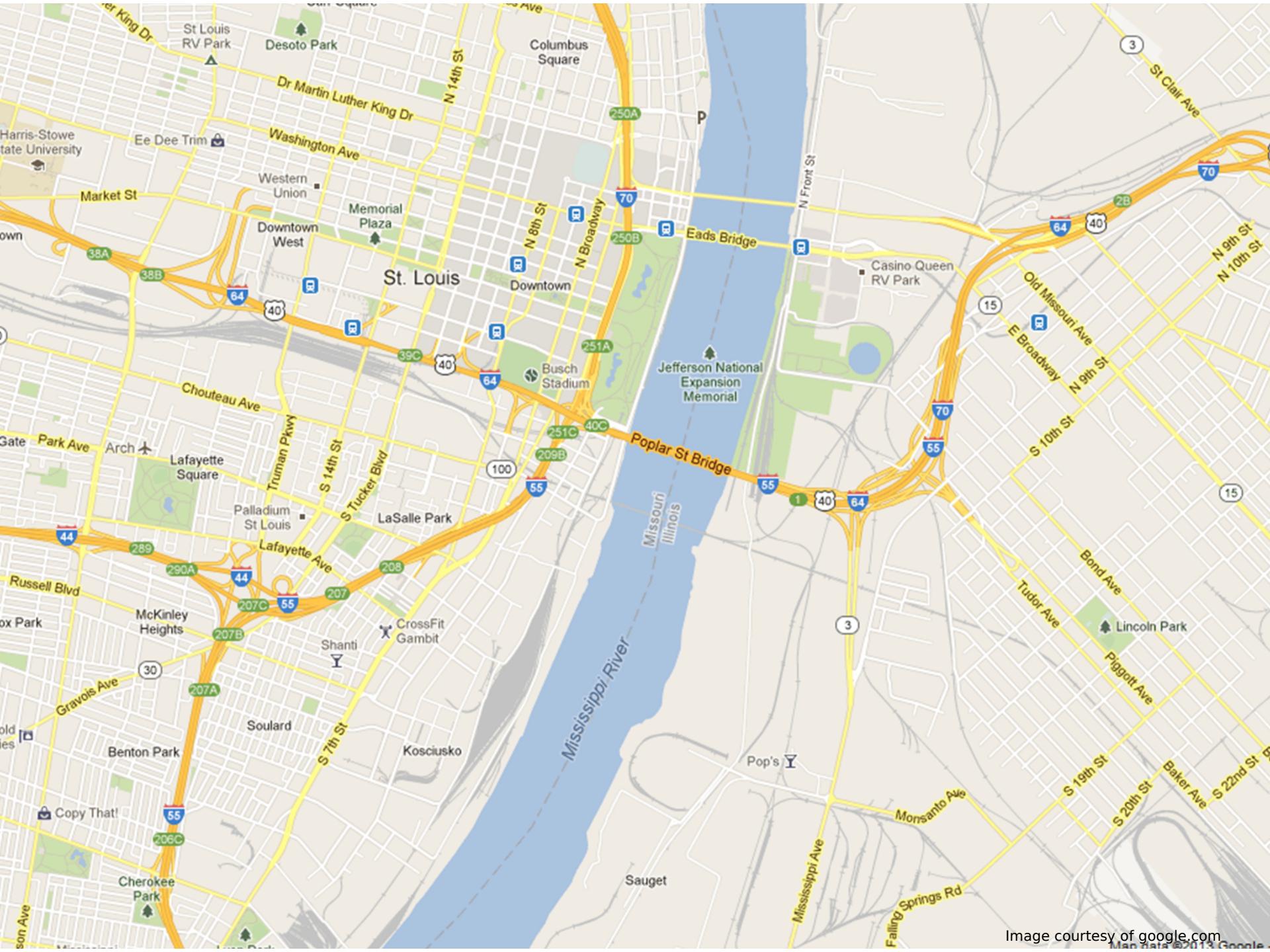


Image courtesy of google.com

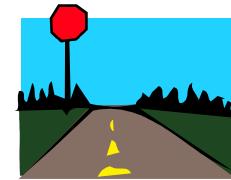




GIS Data Layers

*Examples of
layers:*

layer 1 - roads



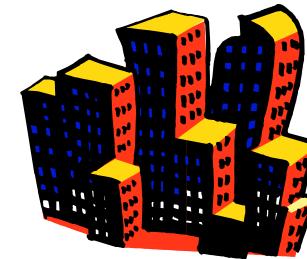
layer 2 - rivers, lakes, oceans



layer 3 - buildings



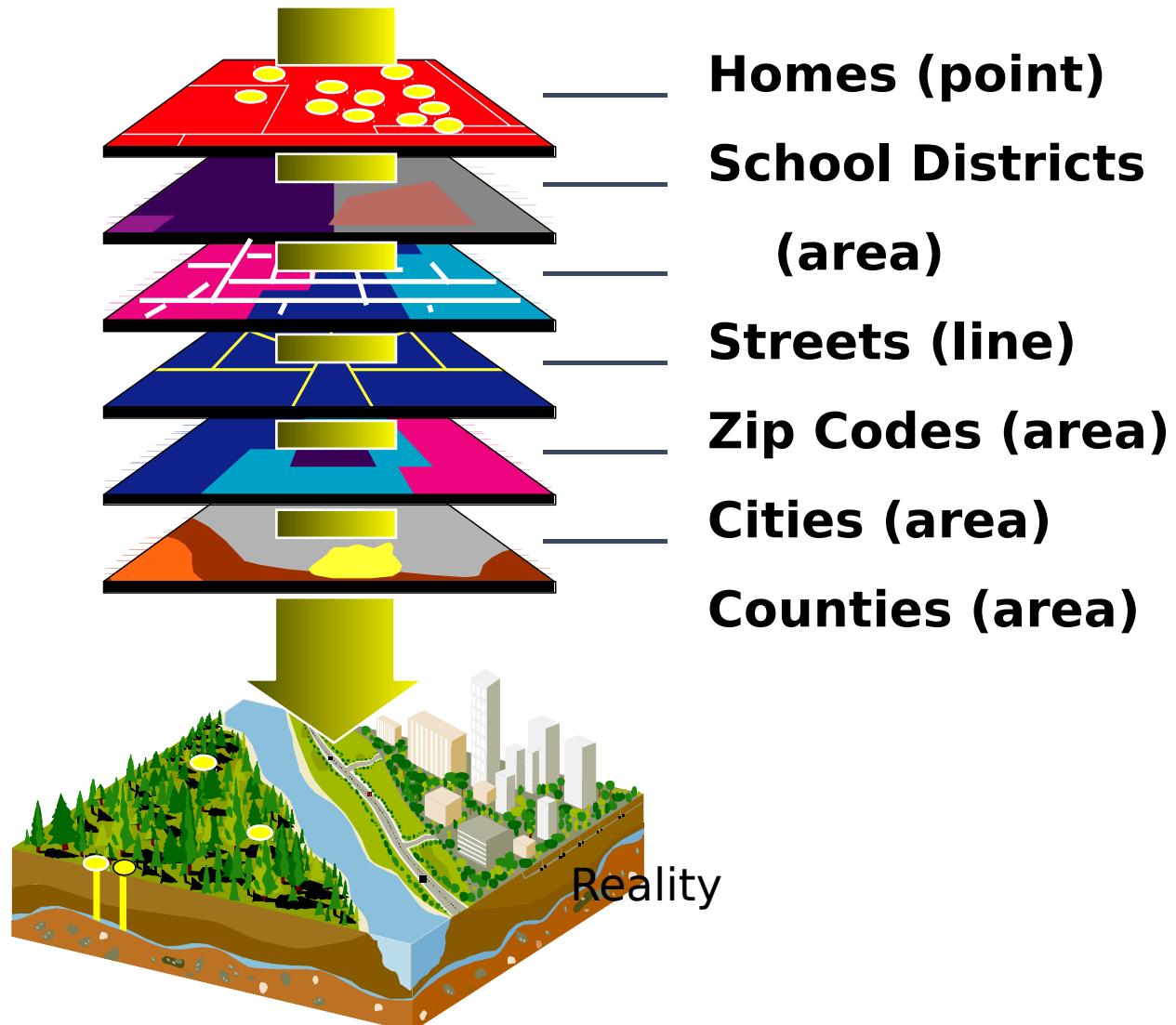
layer 4 - cities, towns





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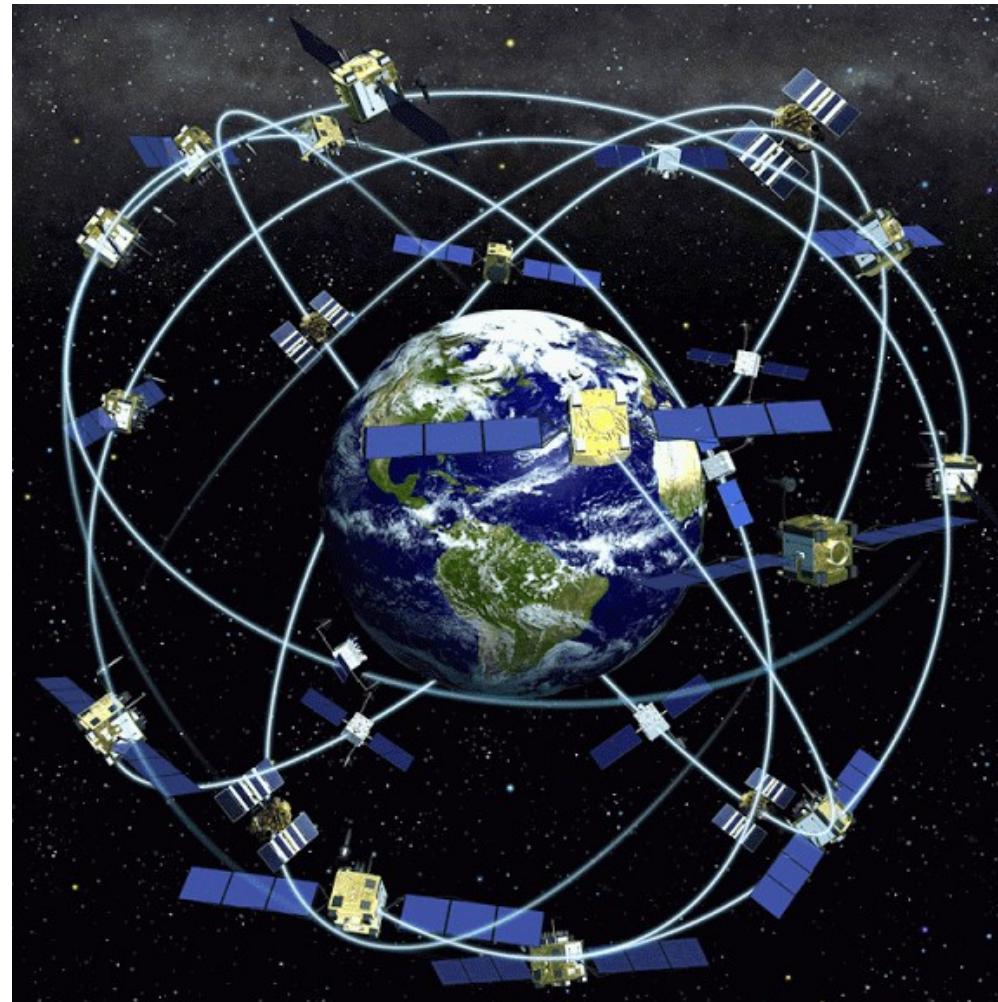
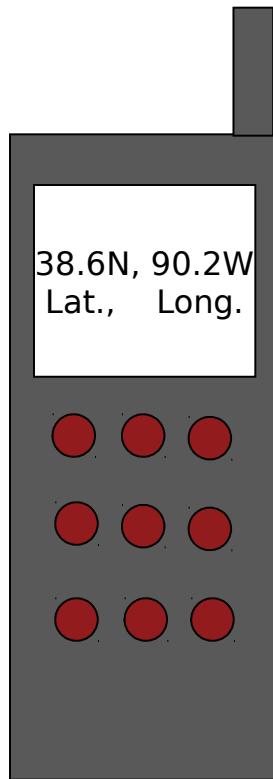
Surveyors on the ground use special instruments



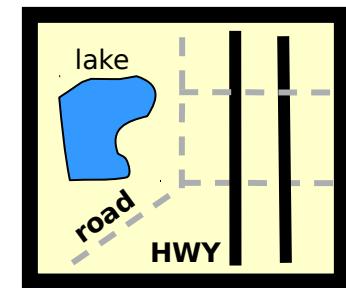
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Handheld GPS



Car -Truck - Boat GPS



GPS Constellation

Image courtesy of orbiterchspacenews.blogspot.com

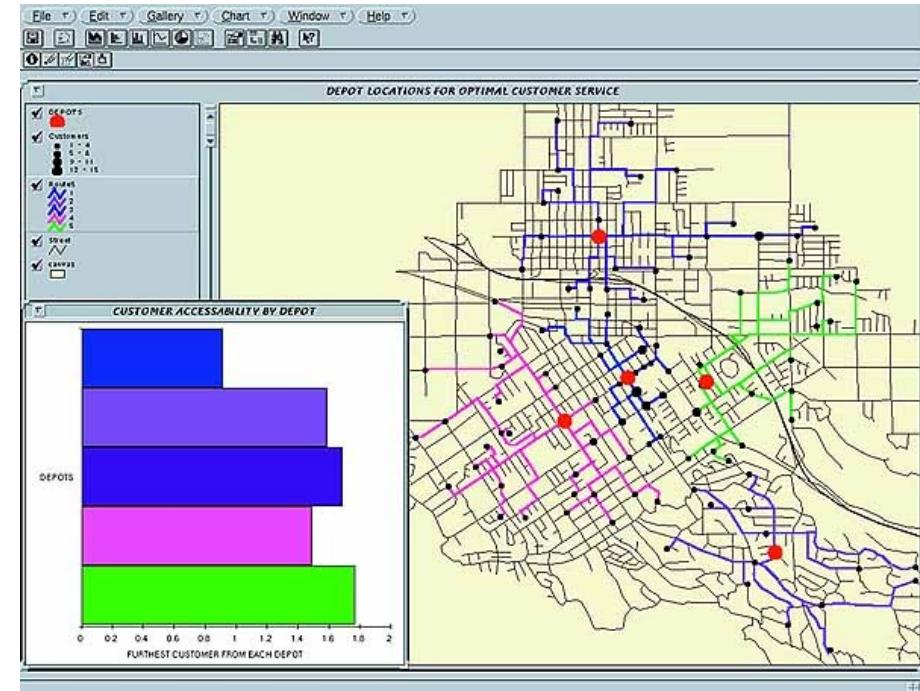
A faint, grayscale world map serves as the background for the main text. The map shows all major continents and their outlines, providing a global context for the question.

Can you guess
who uses maps?



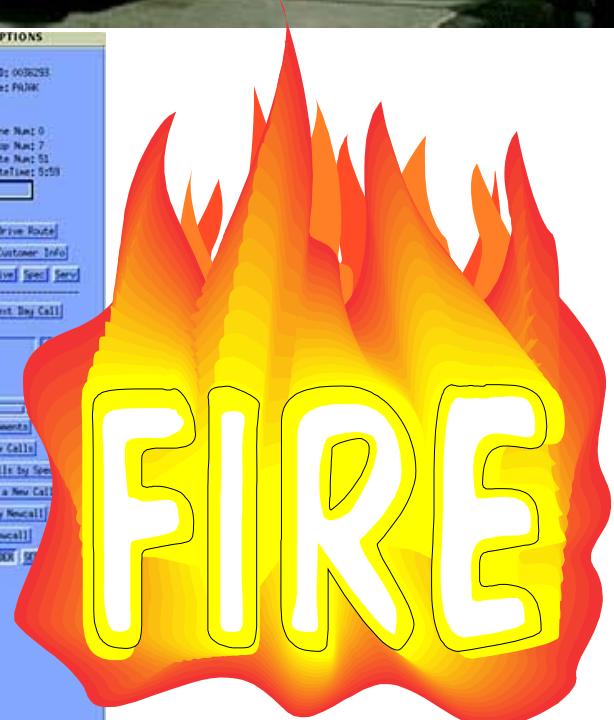
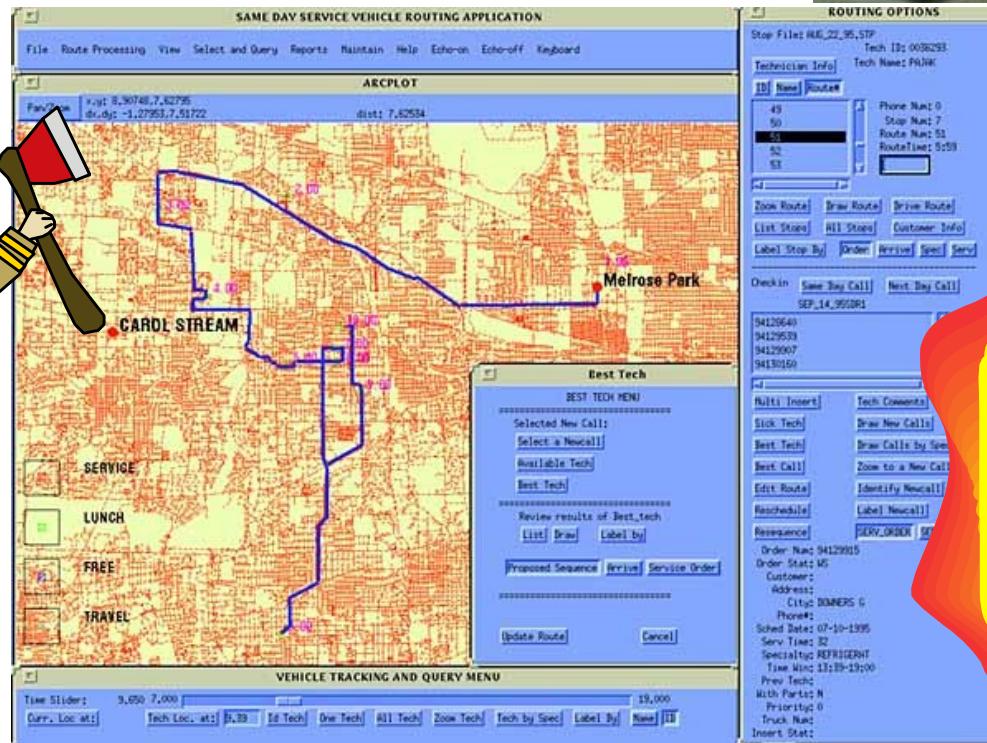


City maps of your neighborhood are used to help plan school bus routes



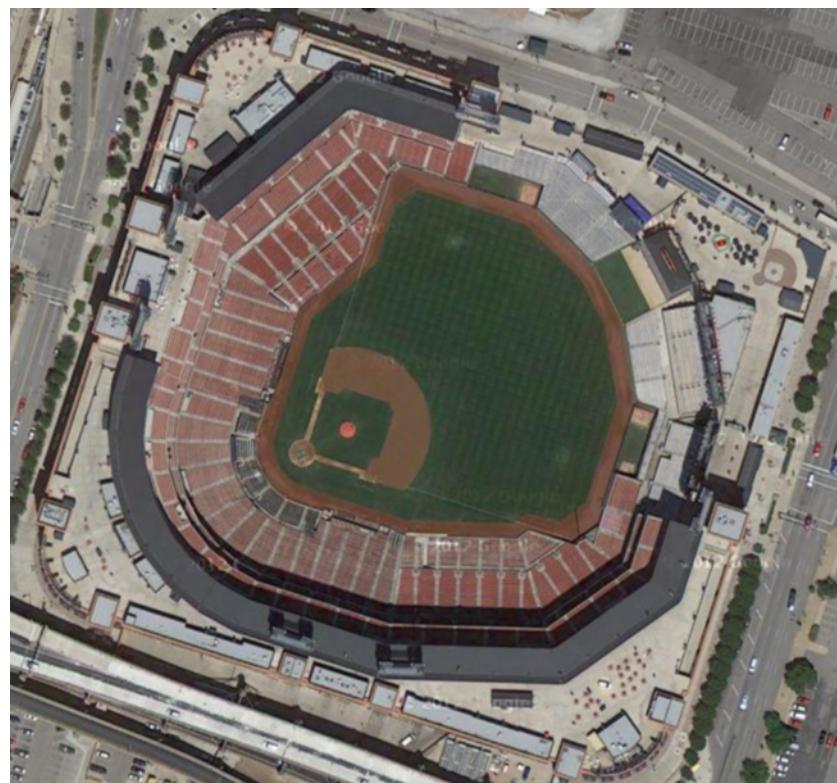
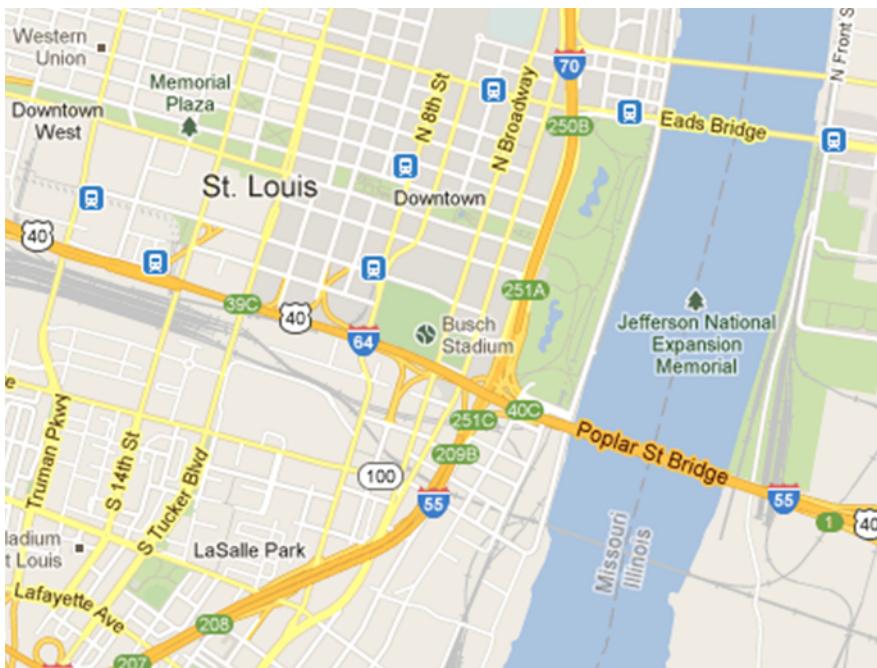


City maps are used by firemen to get to the fire as fast as they can





Maps are used to locate a place to build a new baseball stadium



Busch Stadium in St.
Louis

Image courtesy of google.com

A faint, grayscale world map serves as the background for the title text. The map shows all major continents and their outlines, providing a global context for the presentation.

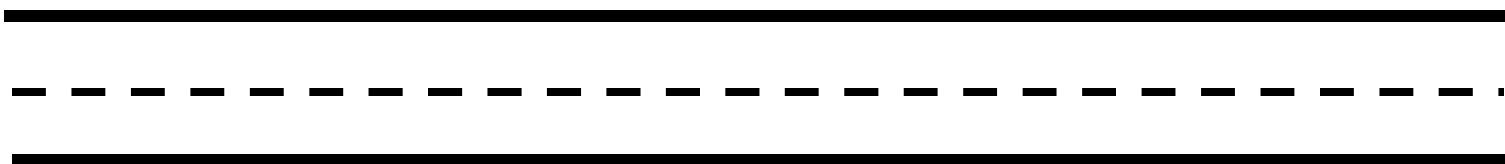
**Let's Try
Drawing A Map**



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Let's Draw:

A Map of My Street

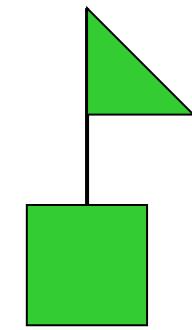




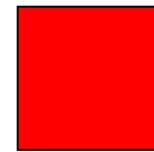
Let's Draw:

A Map of My Street

(Some legend symbols to use)



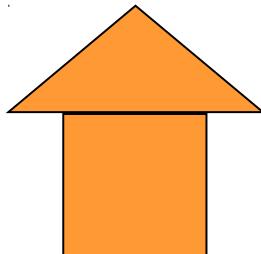
School



Building



Road



House



Hospital



Railroad Track



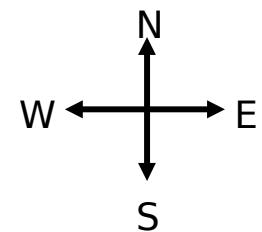
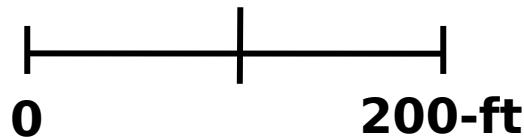
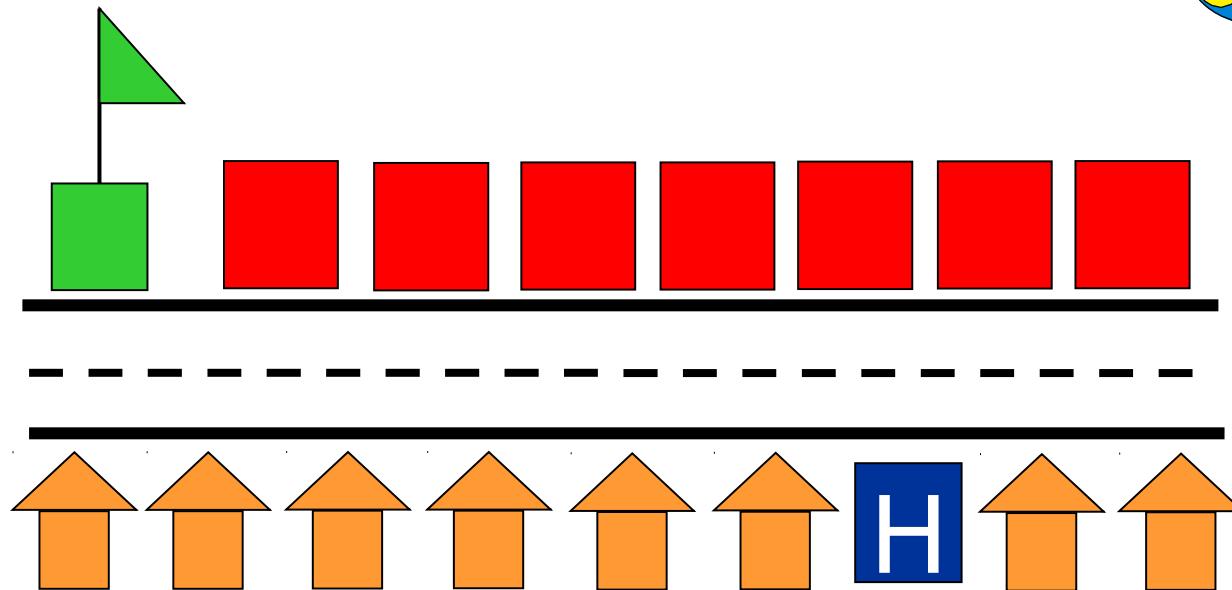
Let's Draw:

A Map of My Street



Legend

- School
- House
- Hospital
- Building





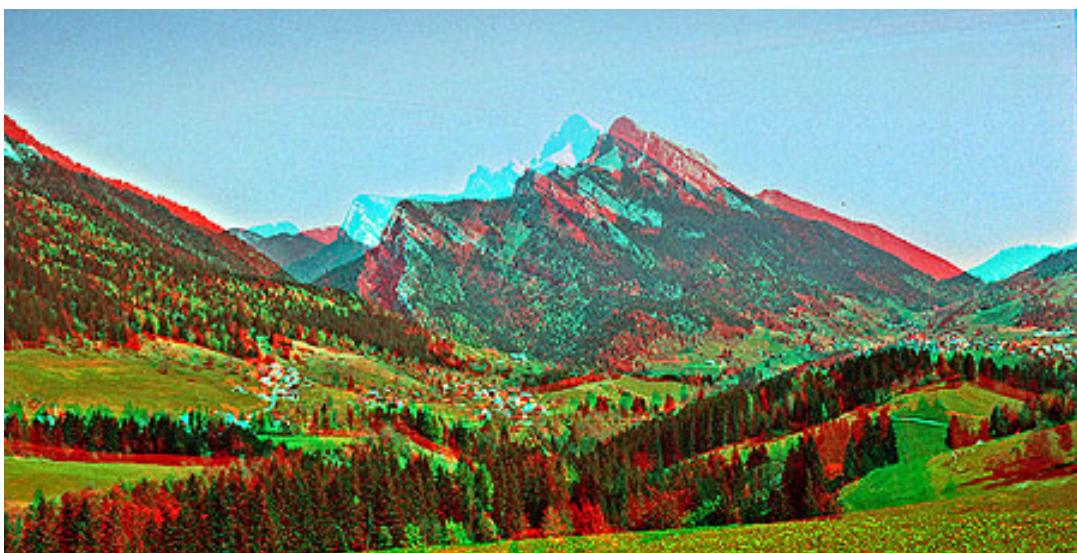
A faint, semi-transparent grayscale world map serves as the background for the main text. The continents are visible through the text, with darker shades where the text is thinner.

**Let's see some
3-D Imagery**

What's an Anaglyph?

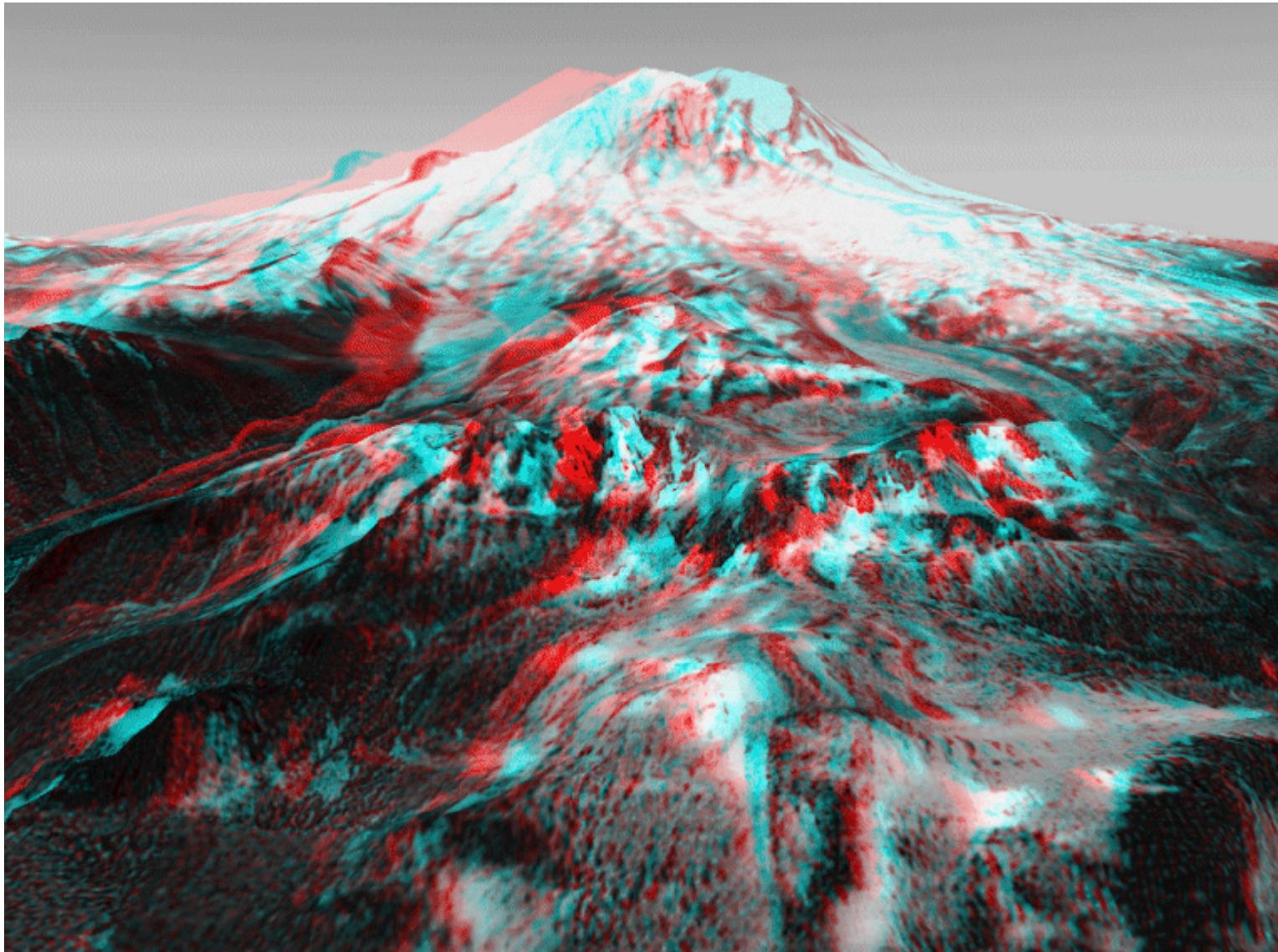


← **Regular
Photograph**

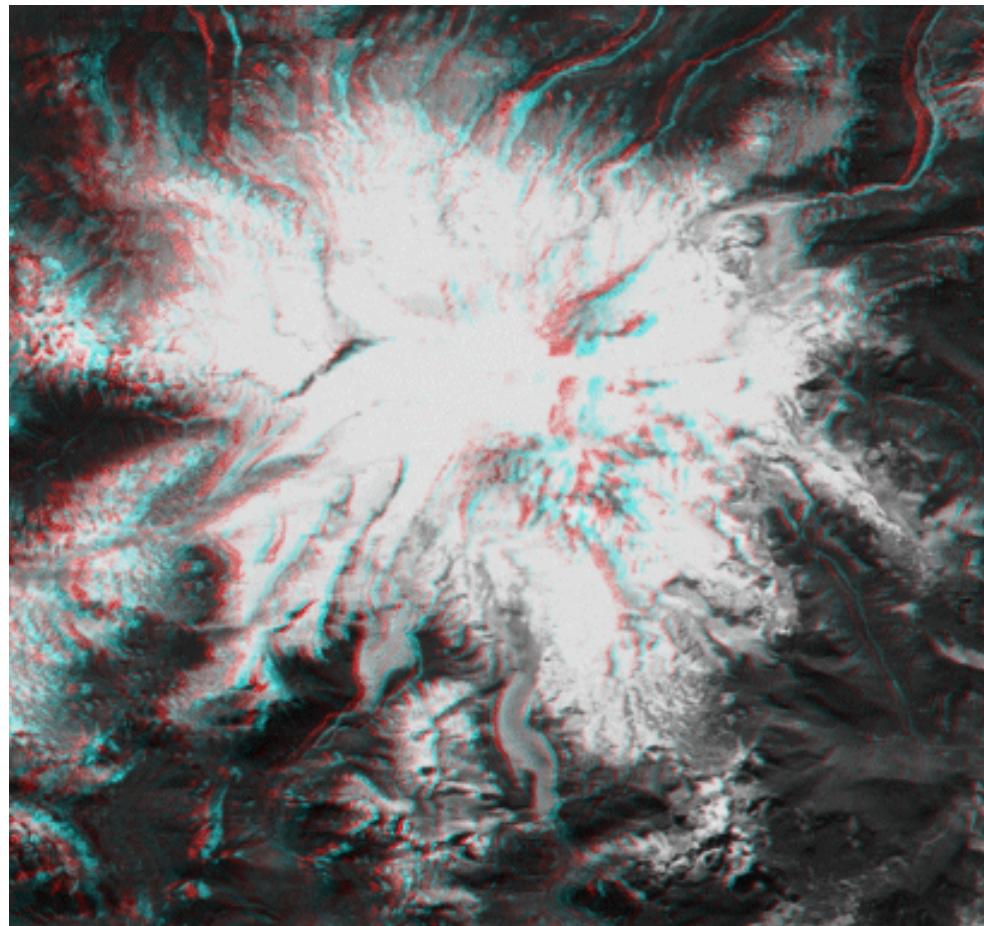


← **Anagly
ph**

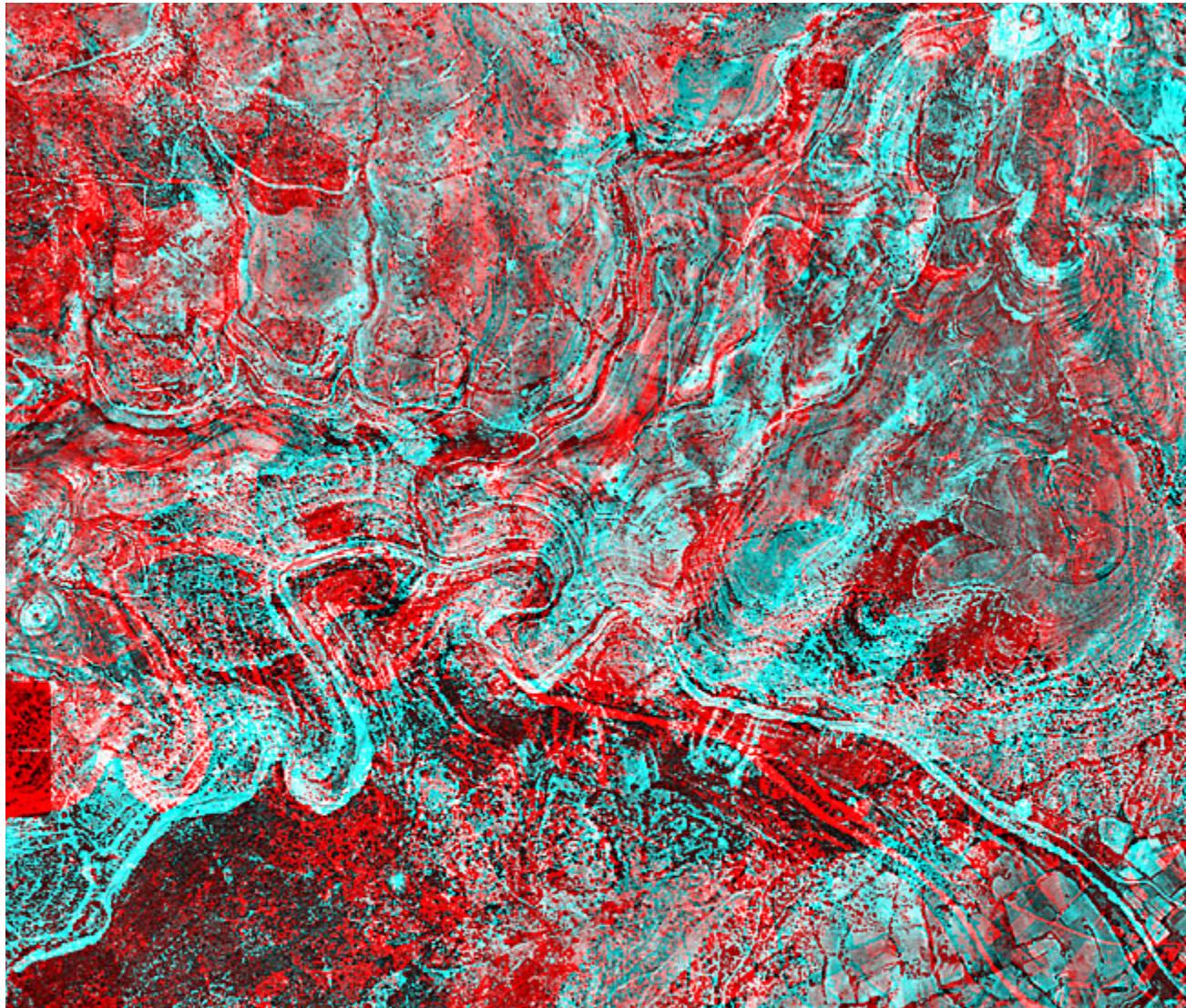
Mountain: Side View



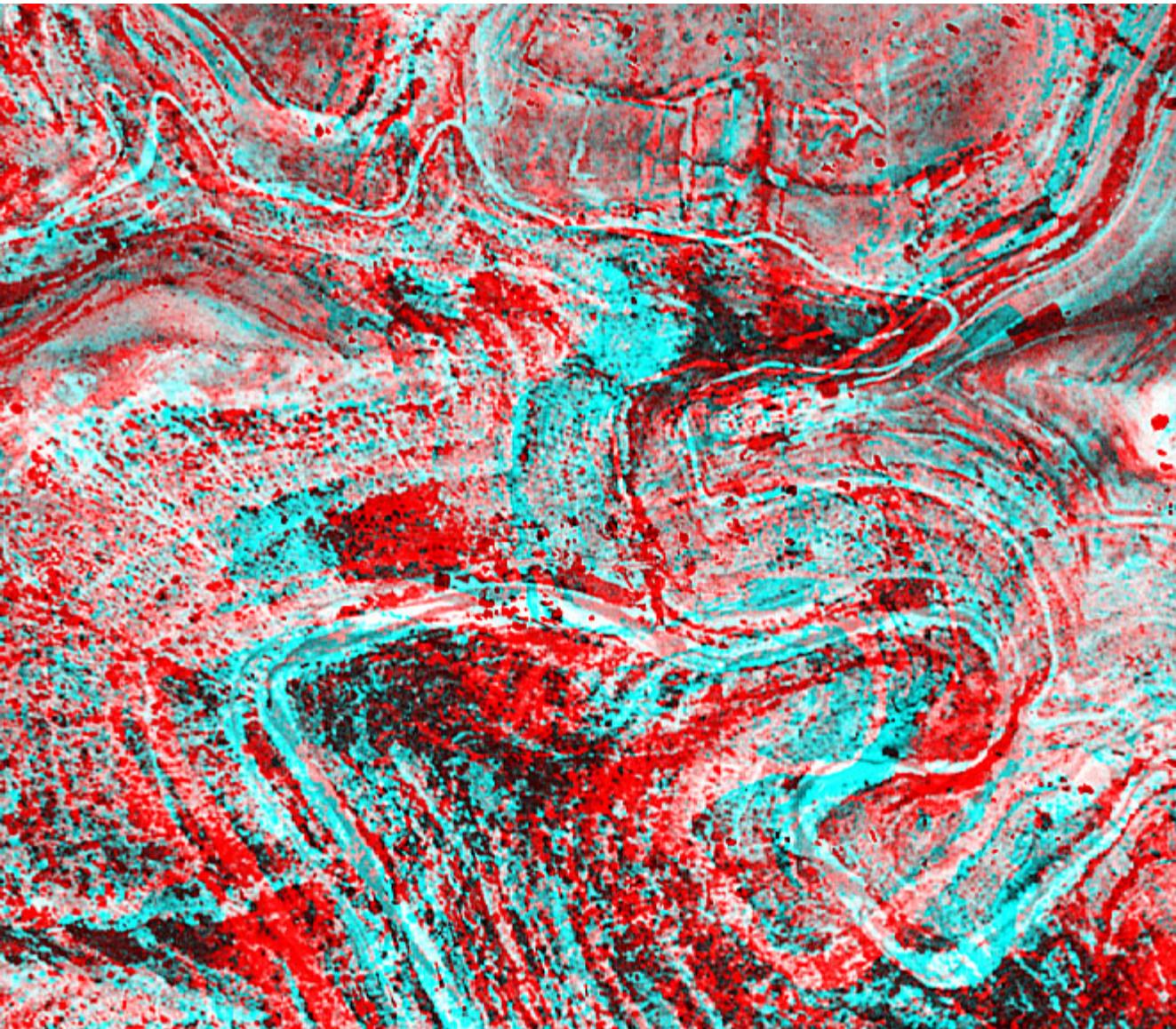
Mountain: Top View

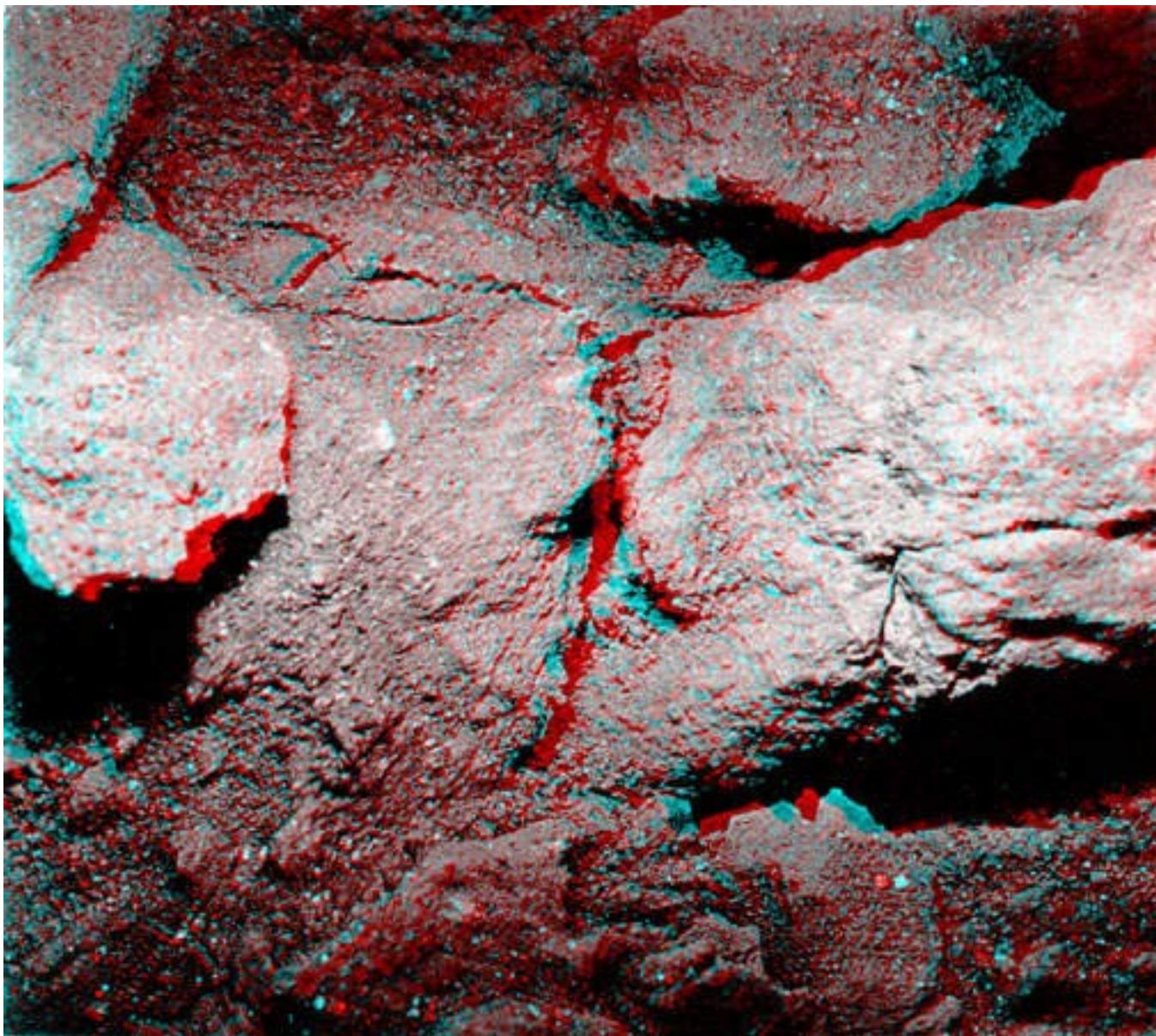


Canyons



Canyon Close-up

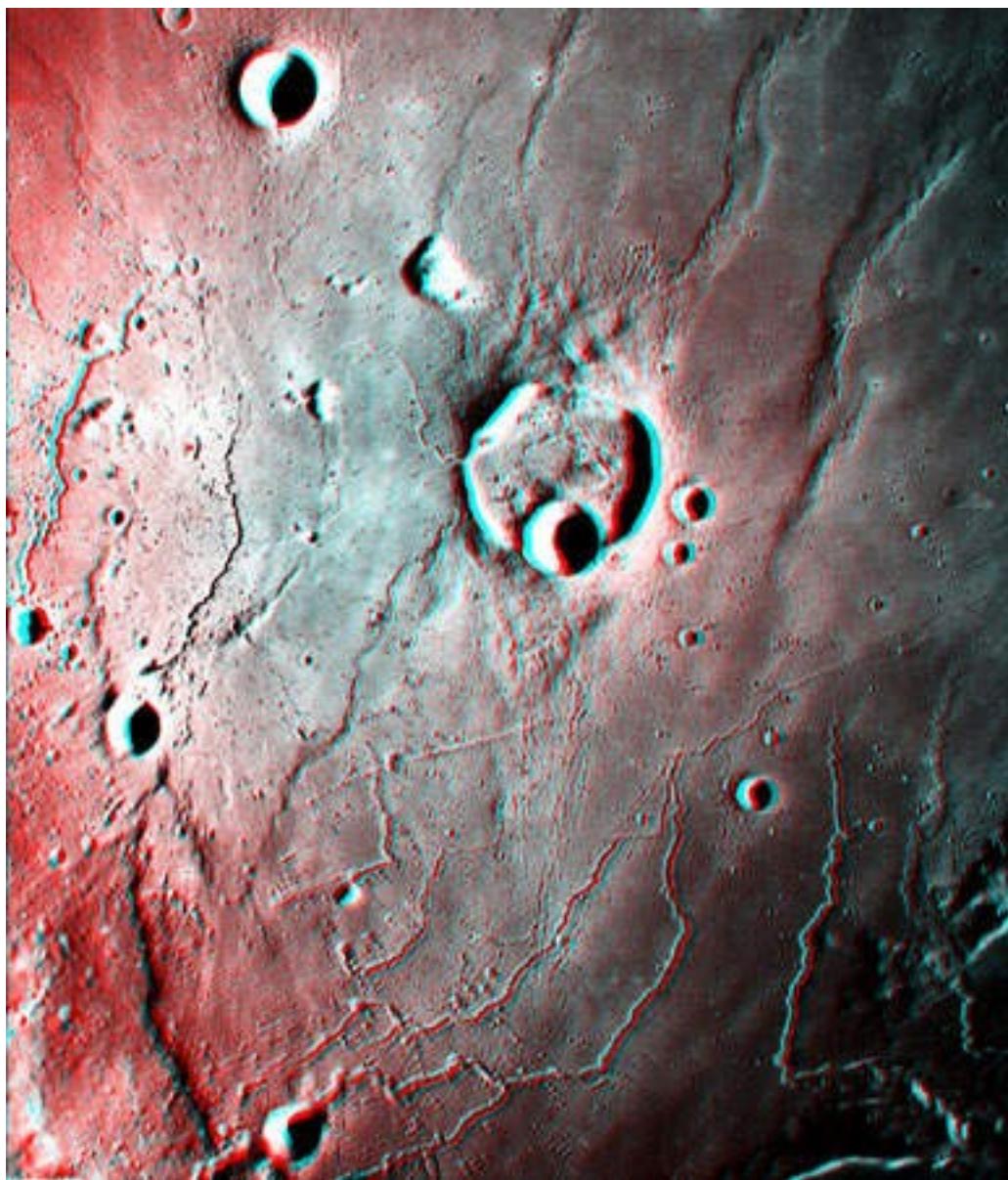


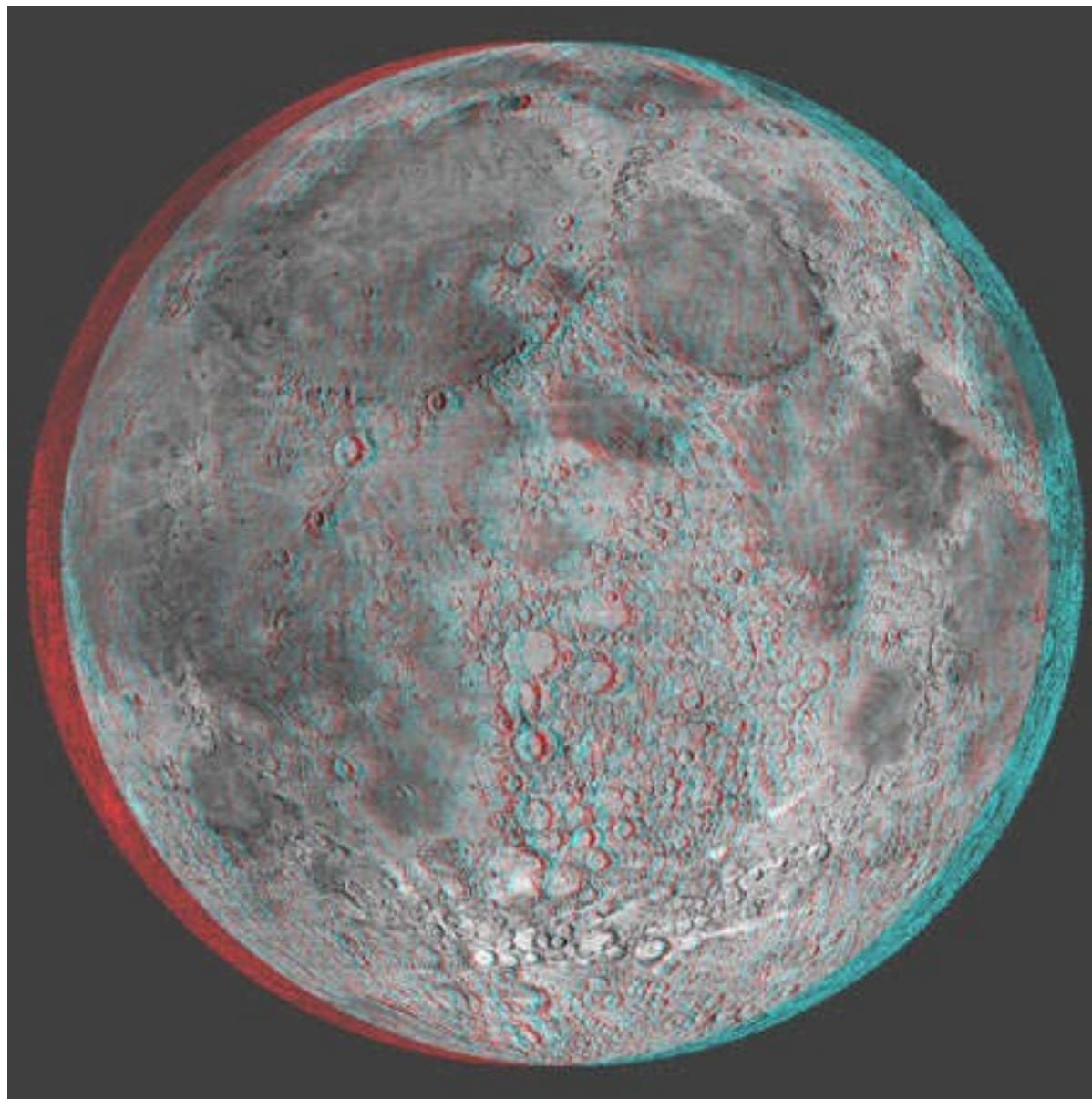


What
is this?

Where
is this?

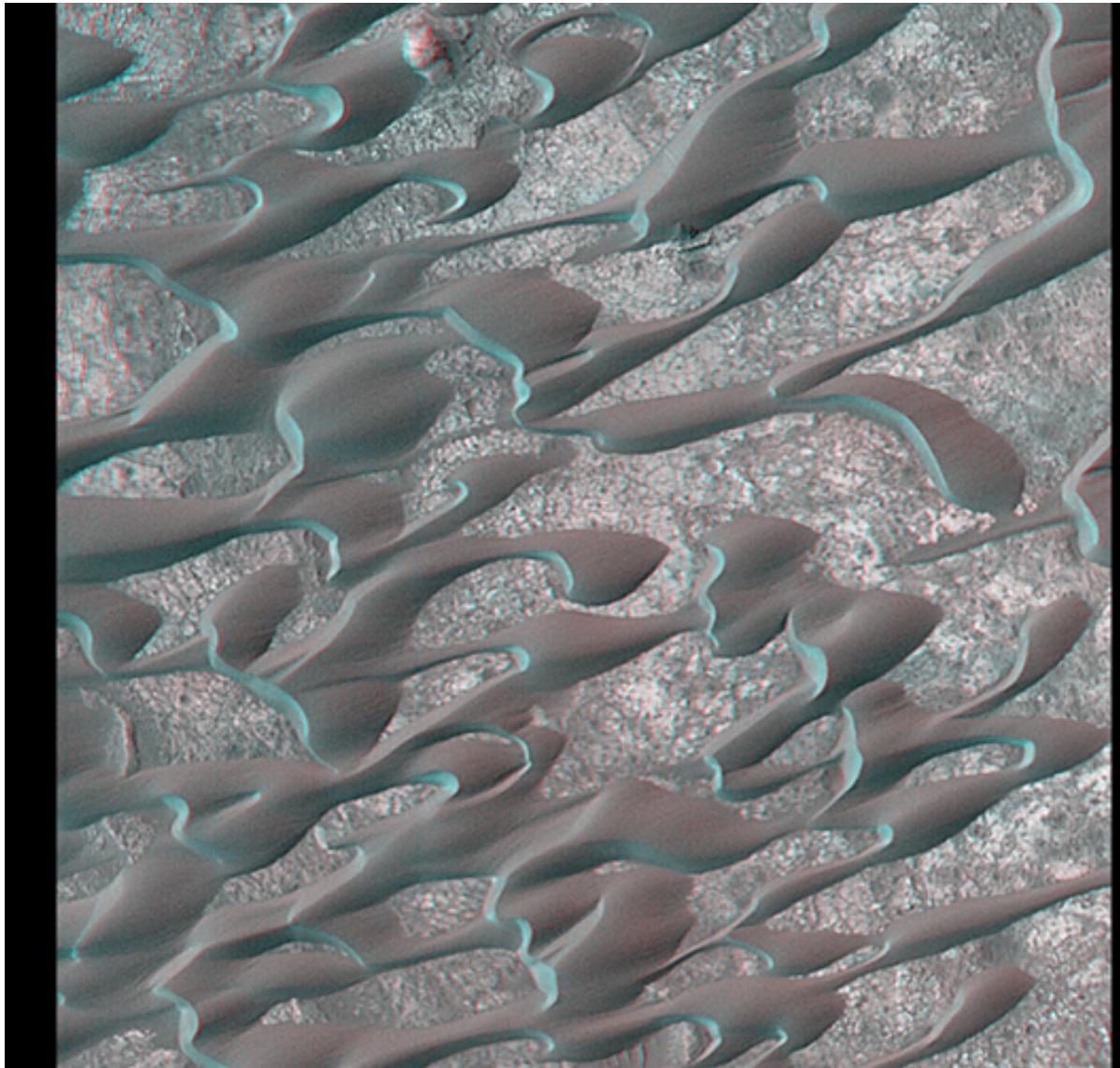
Hint #1



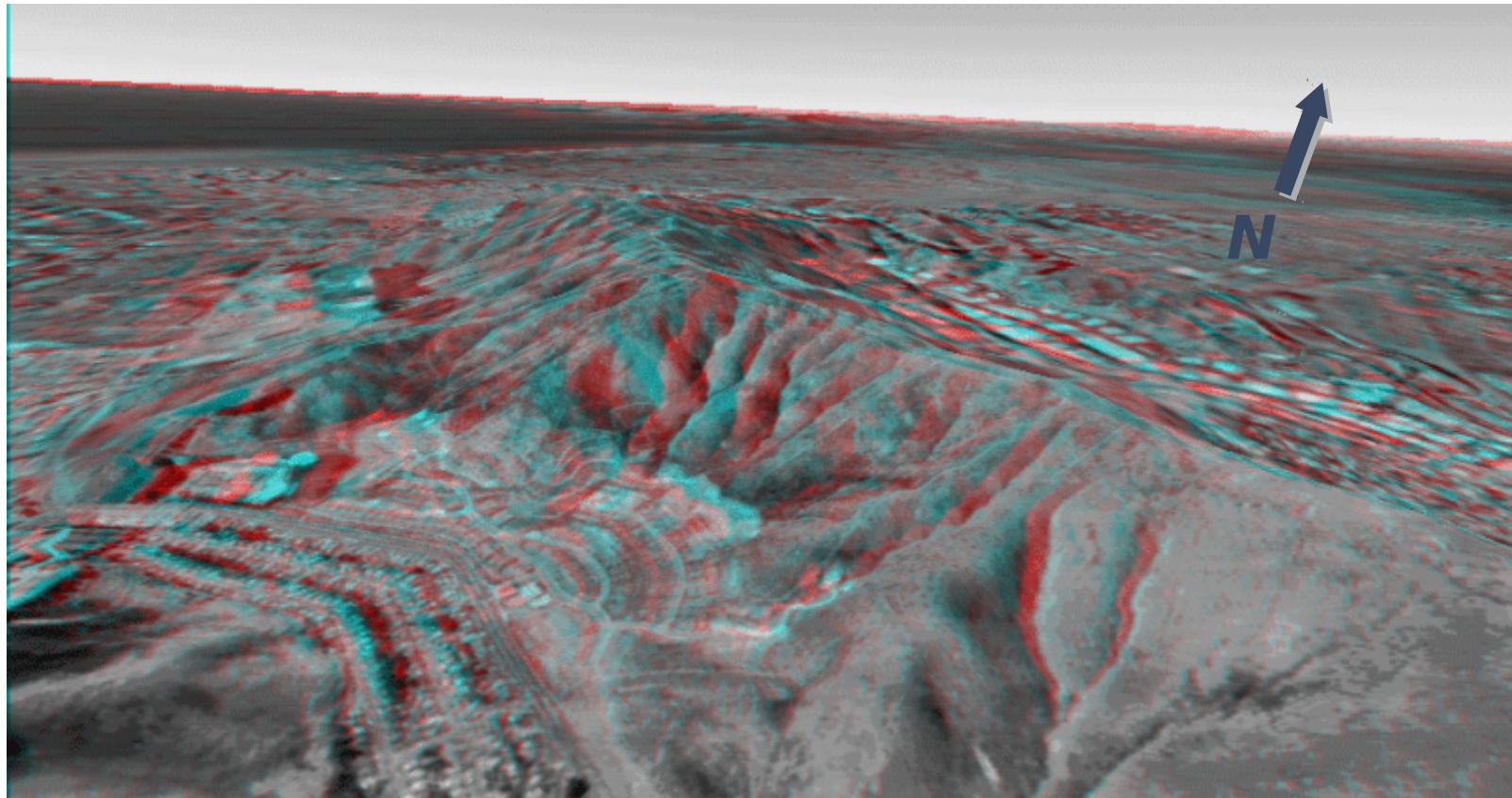


Hint #2

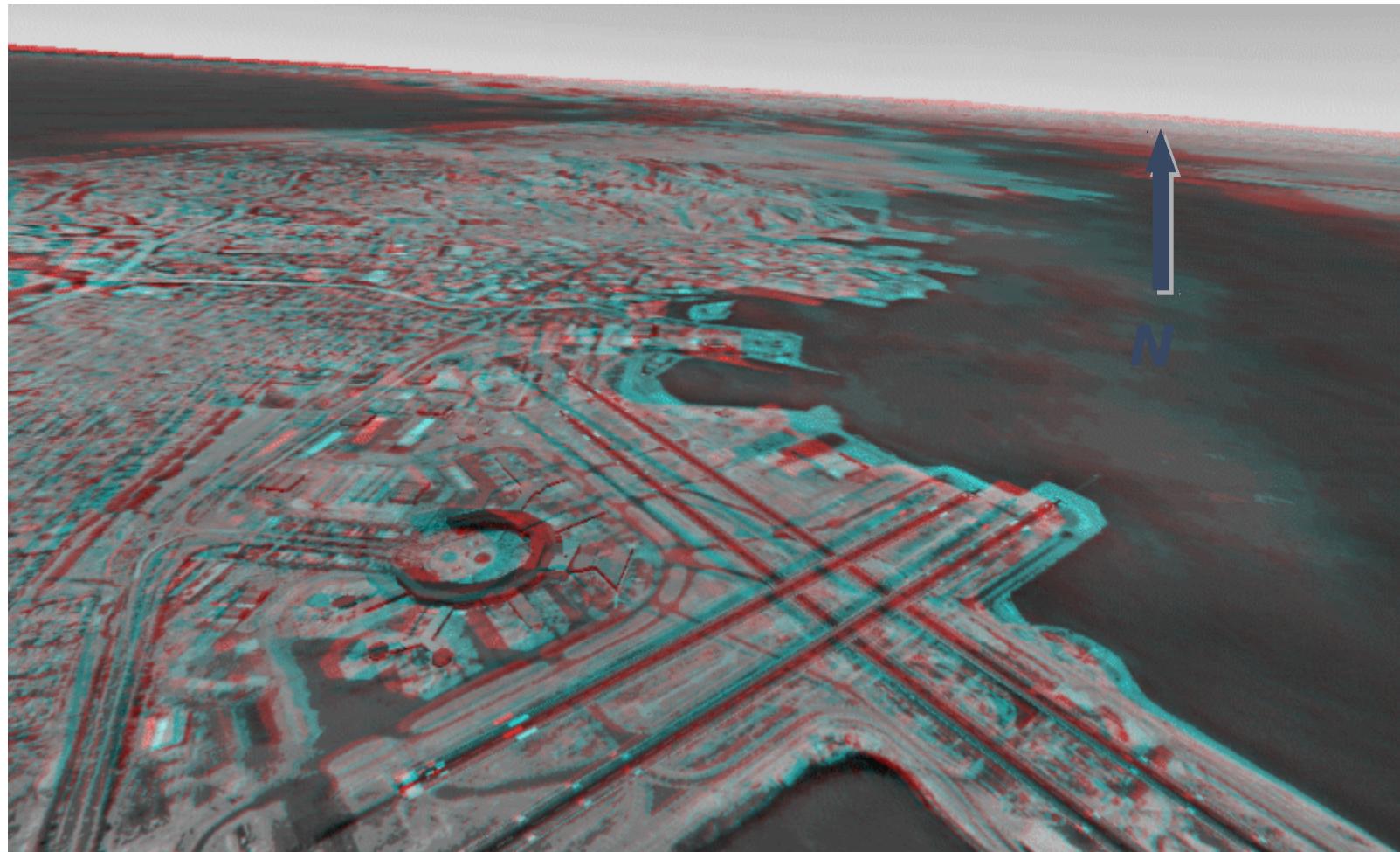
Sand dunes of Nili Patera on the planet Mars



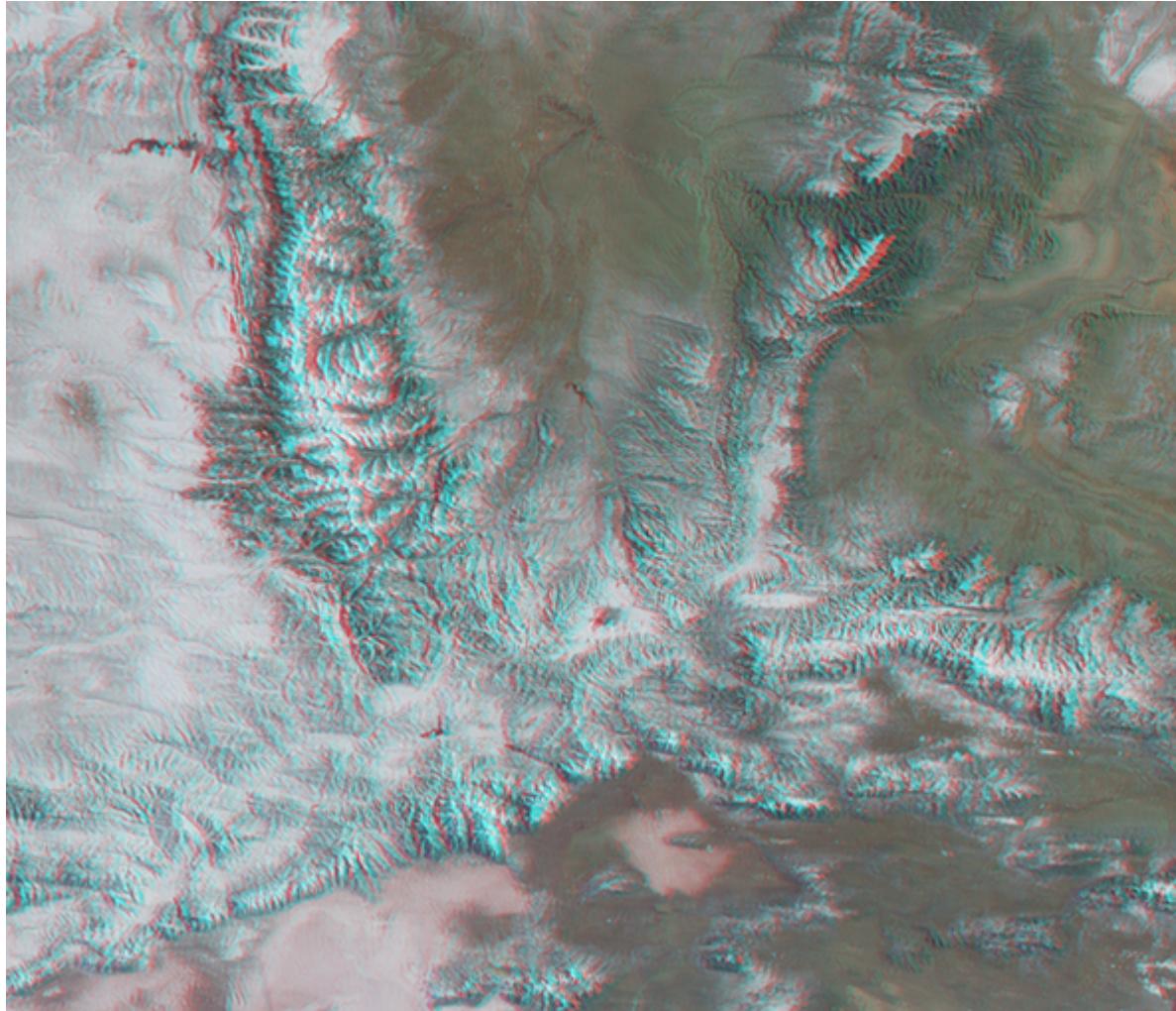
San Bruno Mountains in San Francisco, CA



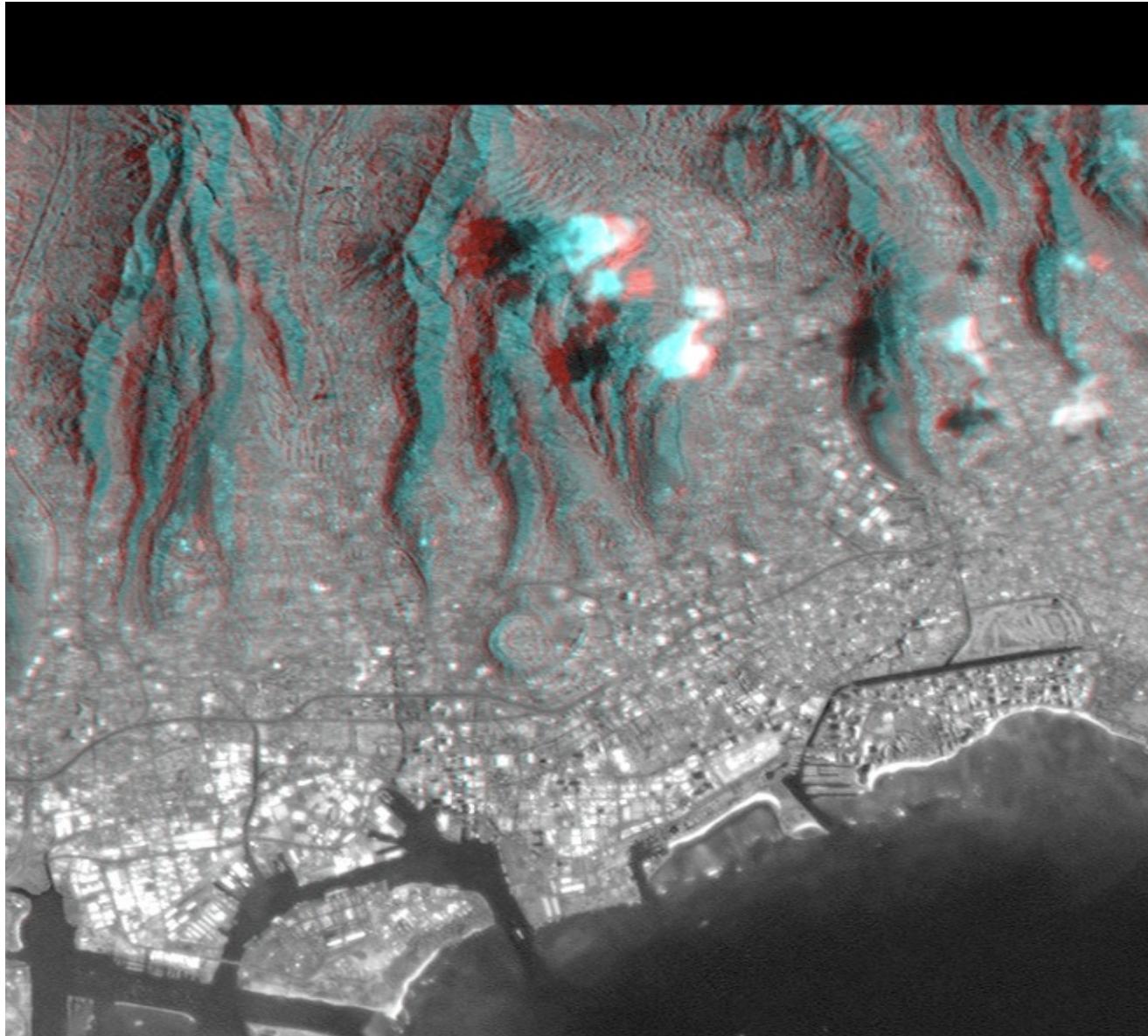
San Francisco International Airport



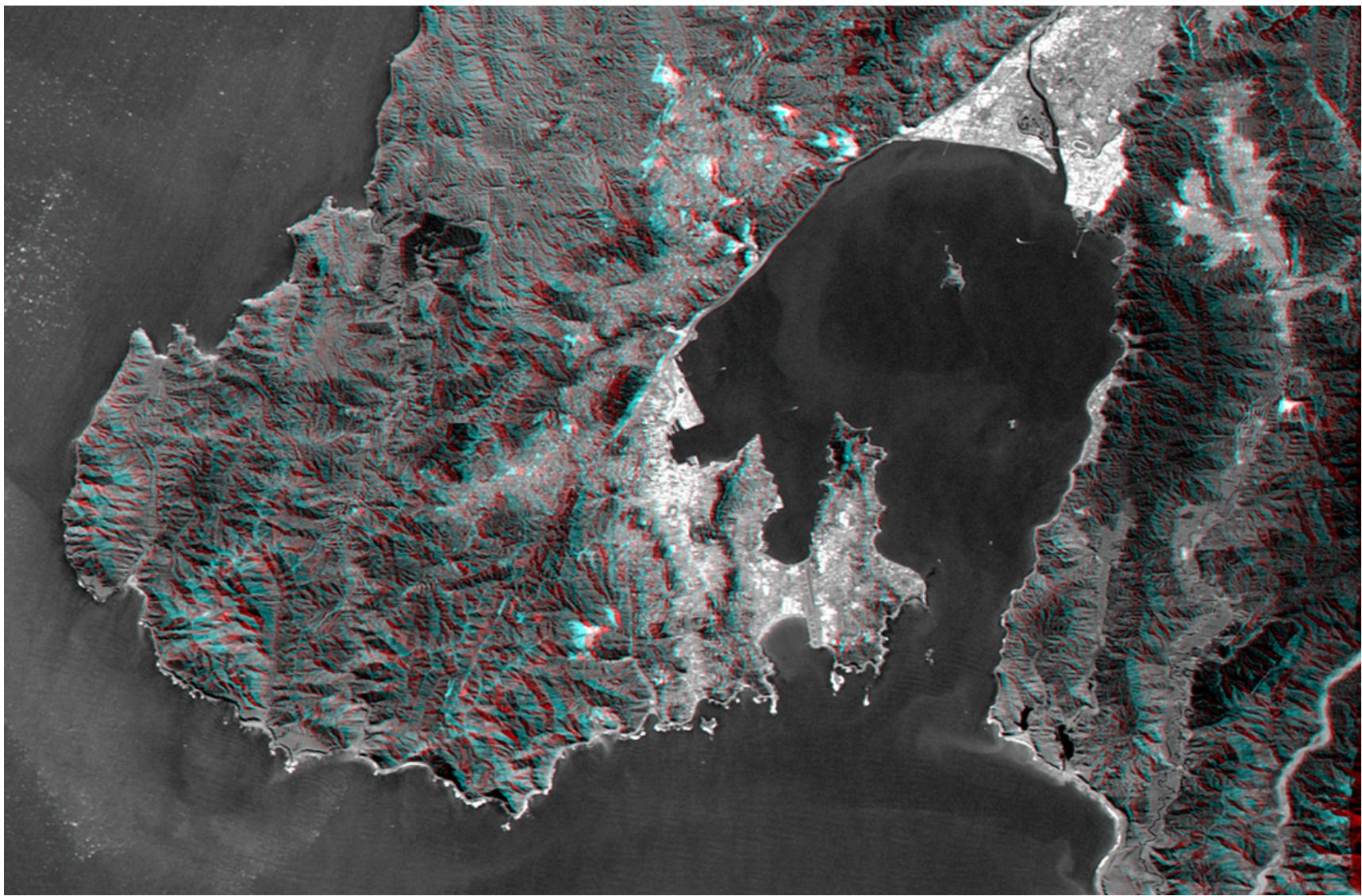
Snow covered peaks Wasatch Mountains and the Unita Mountains, Utah



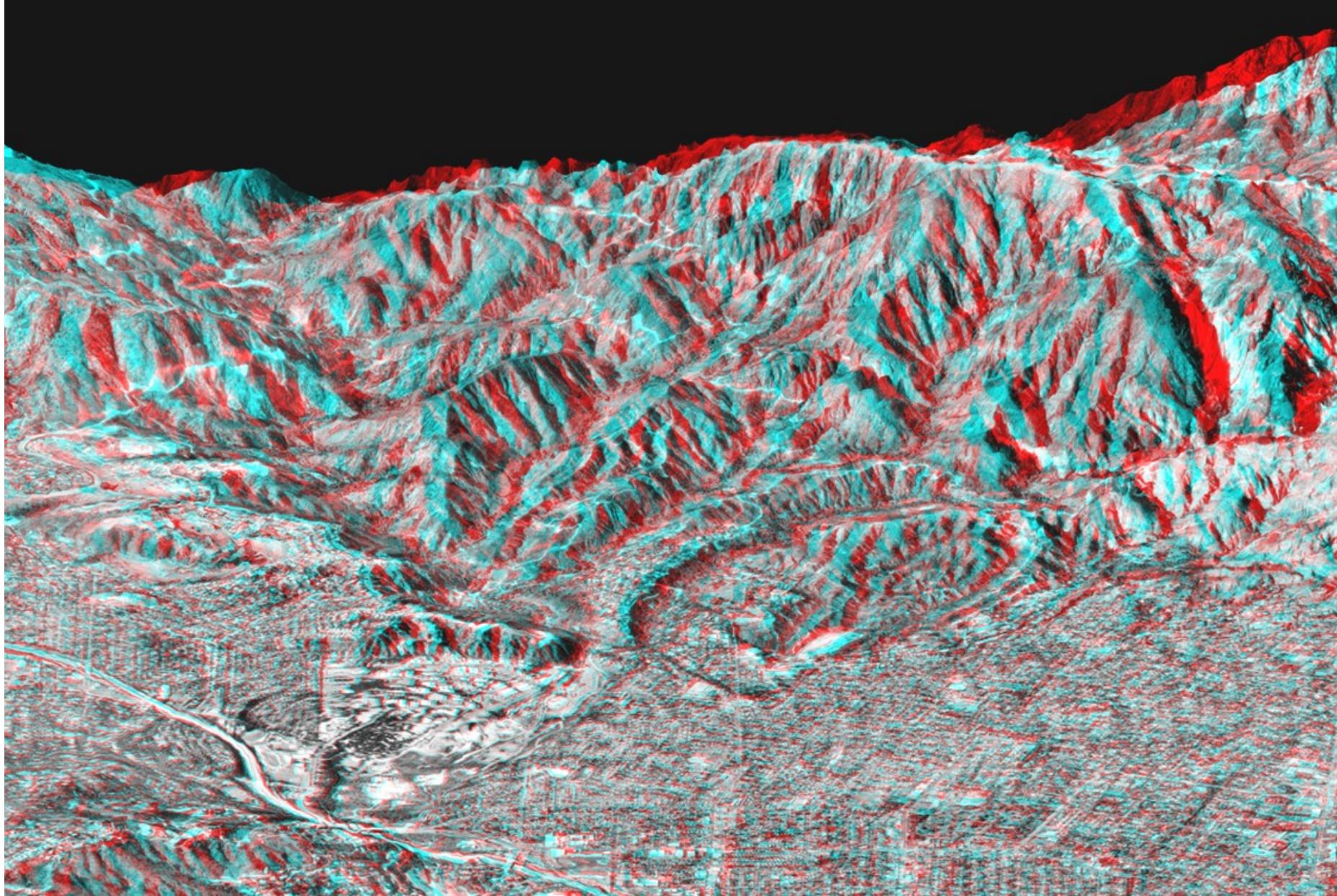
Honolulu, Hawaii



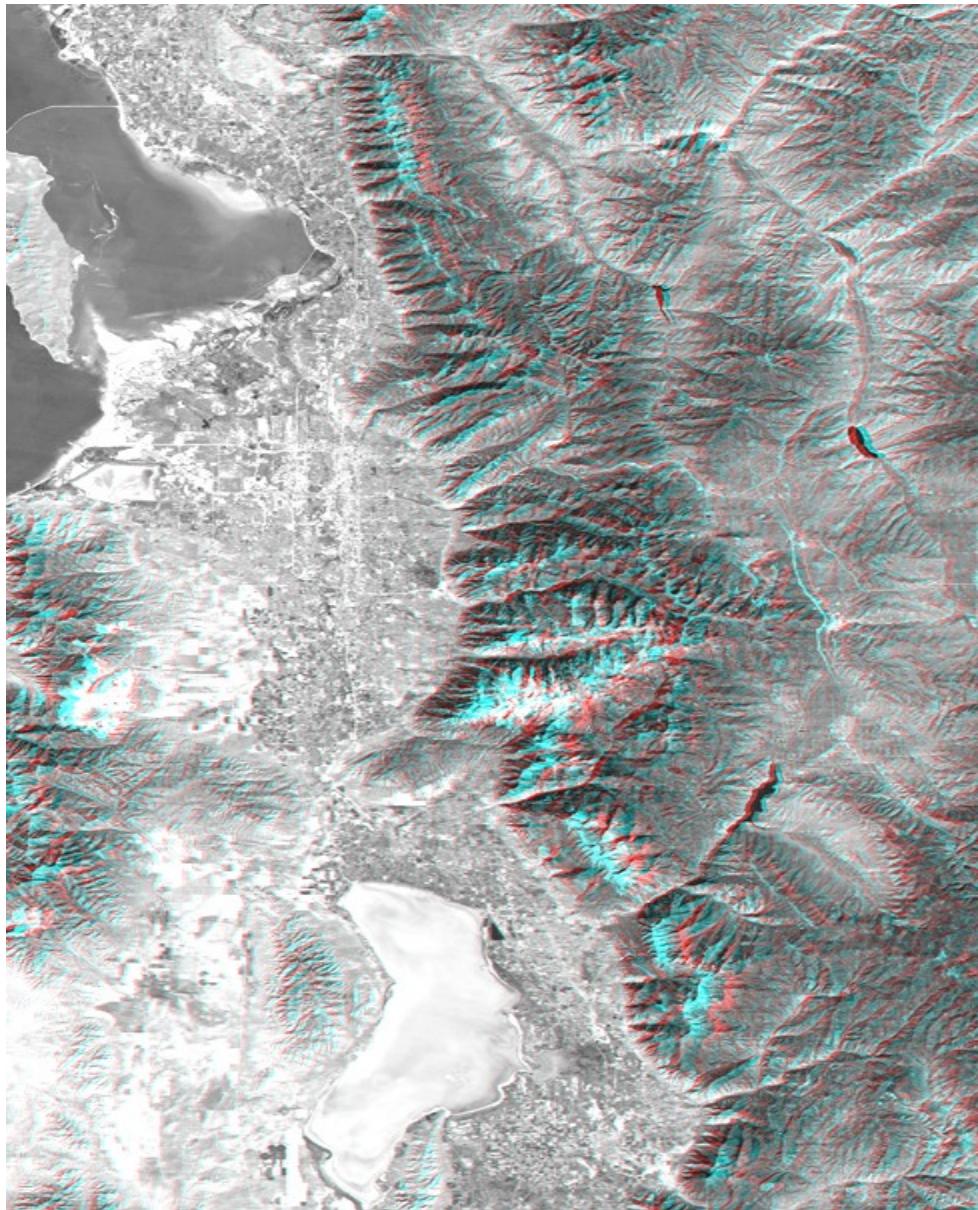
Wellington, New Zealand



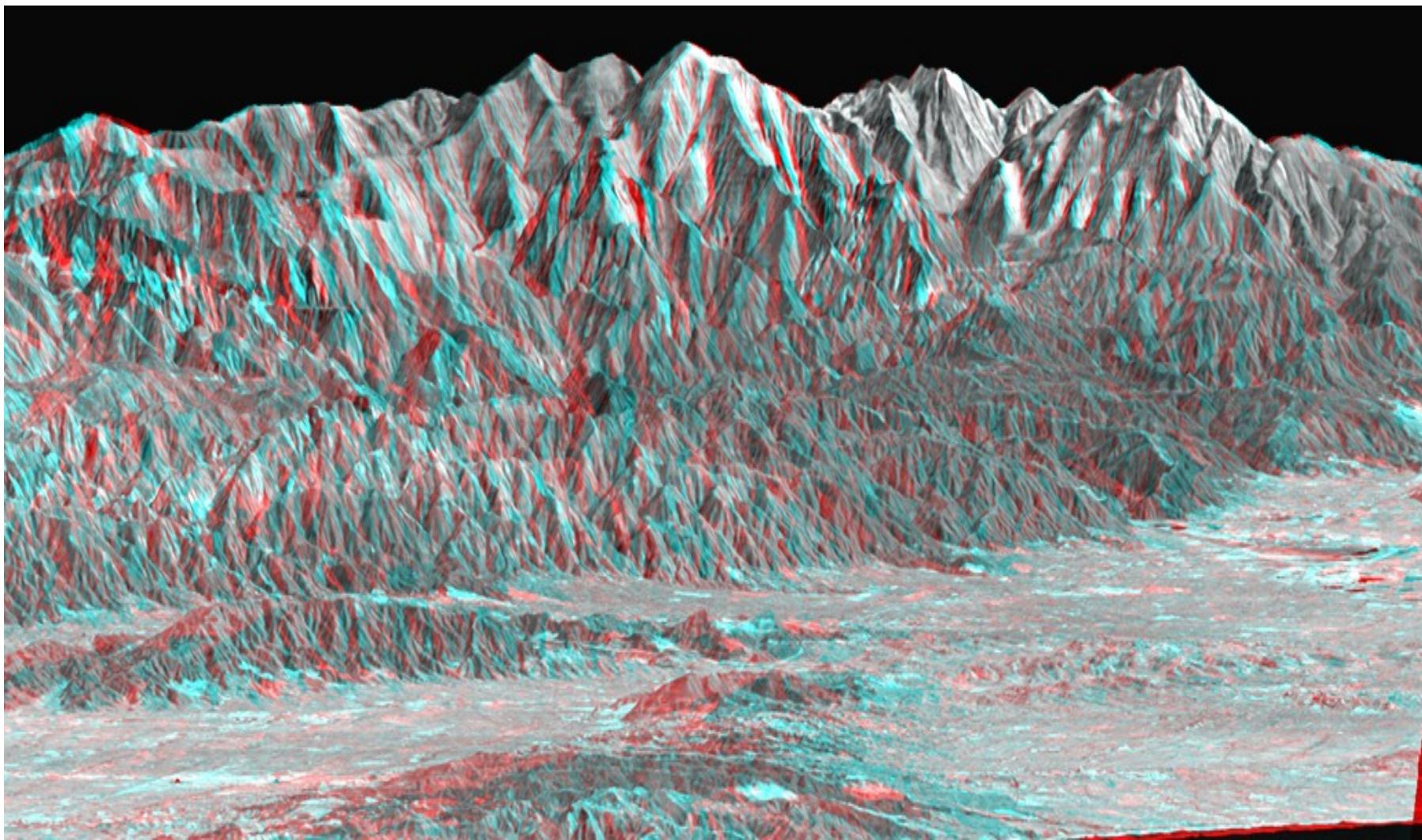
Pasadena, CA



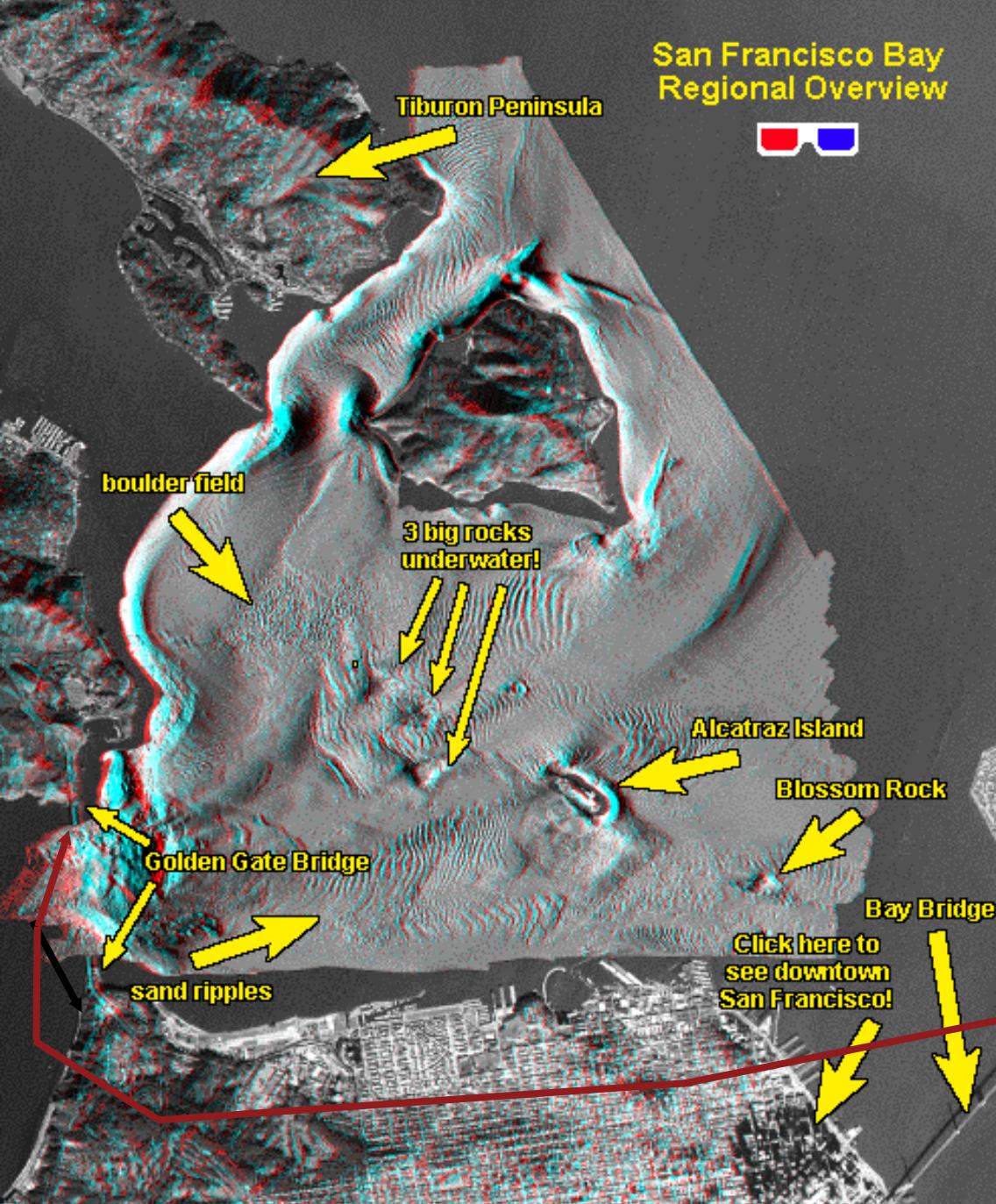
Salt Lake City, Utah

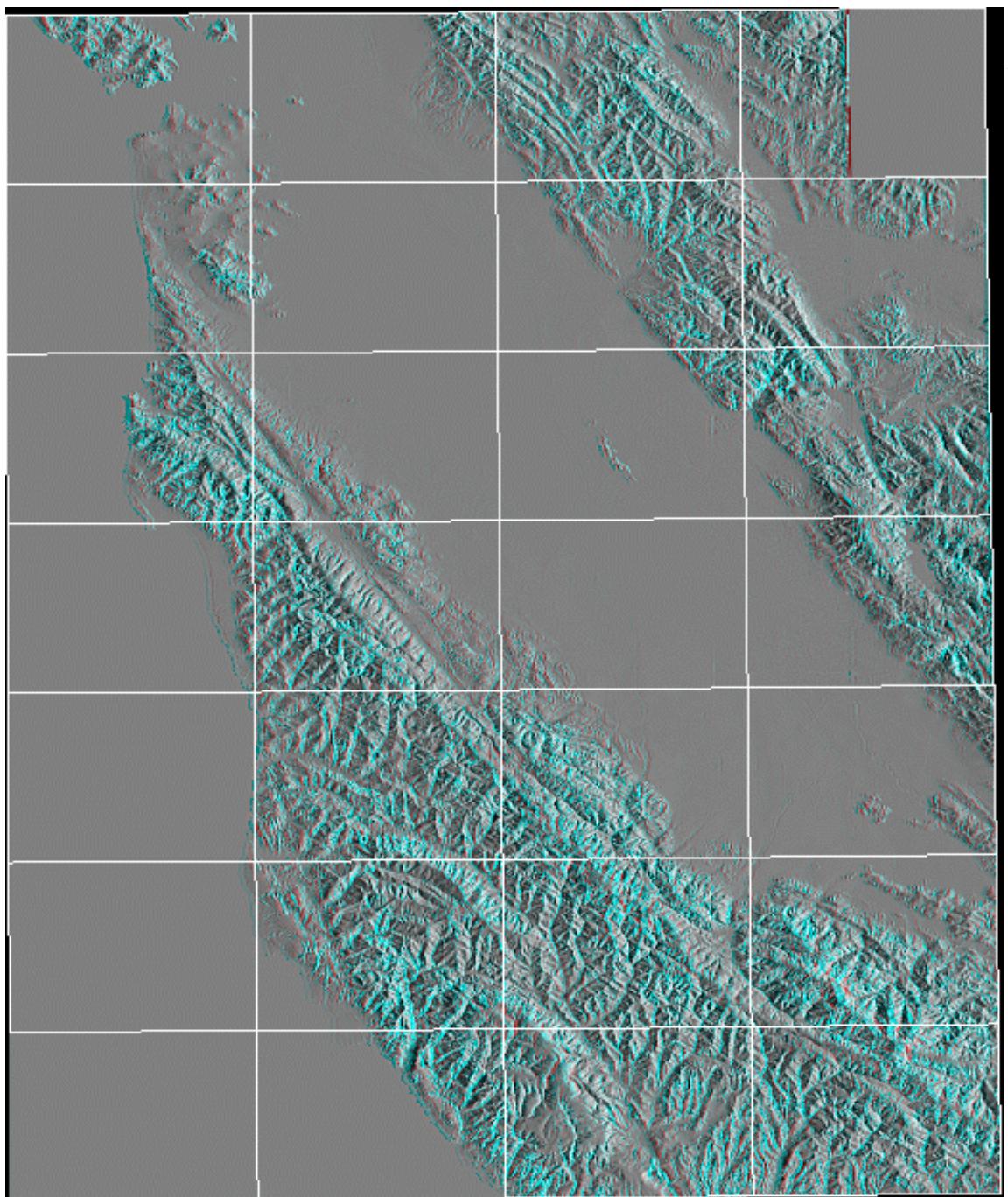


Metro Los Angeles, CA



San Francisco Bay Regional Overview





← Shaded Relief Map

Digital Elevation
Model
(Topography)
Image





Thank you!

Any questions?



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